

gcggtccatg ccagaggatc ataaggcgat ctccccgatg gctggaaaat atctcttaac 480
tactcttaag ttcntgtccg ccgcaagtac cccatagtgc atgactccga ctgccggaag 540
ggcaccatct gtcatgtcc taacgtctaa gcgagcccgg tcgatccggg ggagatgcat 600
taattattgc ctaagaaacg tacagaagaa ggctgattag cgggtactacg cgcggtccaca 660
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<210> 3105
<211> 731
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 3105

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accaaagccc aagaccactt ttctcaagcg taccacctc tctactctca ctttccagga 180
atatggagta acgttatatc tatatagaac accatacata gtagatatat ccaaagagag 240
agttgggcgt gtgcttaacc ttggagctat tgaaggagggt gctgatgctt ggaaaaacat 300
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ggattatatt agagatgggt cgtctttggg gagagacatg aaccgtcttg acgctttcta 420
caaaggactc agtacttggg ctcgatgggt tgatcaaaac gtcgataccg gncaaaactc 480
gagttttctt tccaaggcat ttcttccact tcattaccaa ggggaaaggg gaatnggaac 540
cgagccccc an gnaagaact ttgtaantgg gggccaaaat ggcaancccc ntttgggggt 600
ggggaatcca aaggtttanc ccccaaagtg ggggtccaaan ccctttccaa ttcccnttaa 660
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<210> 3106
<211> 690
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations

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atcctgatga tgagactact aaagcccaac tcgtctagaa gcnnnggatct tcaaattgggg 660
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<210> 3108
<211> 683
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E5
<400> 3108

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acgccgccgc cggagggacc atcttcatct tctccggaga aggtaagagc atcattatcg 180
cccggatccc gttaagttec aggtgtccat tctgacaaga aggccgccat ccgctcctgt 240
taattgctat aaggatttat tcccggaaact aaaggaggcg tagtcggcgg cgggcacagc 300
taggcgacct tcacggacga gcctaactcc tactctatcg gagacaccta tgtgaccatt 360
gtccttaata attctccatc gtcgtaactg atatctggac cccttacgag atgctctaac 420
ttgataaggt ctcccccaac aggtcgcgtt tcttgaacaa agaagggaag tgcagcccta 480
gcgataccac gcctangaga ccgataaagt cccgggacac ttaanantag cttcgaggag 540
tccatcnttg aggagacaaa gaagcccgtt angtcgggac accgantttc gtcctcacta 600
tcccgaaga anaacggacg gacggcnaag gactggctnc cgaggaagaa catcaccggc 660
tagggntcga aggaaaaggg gac 683

<210> 3109
<211> 610
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D1
<400> 3109

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tgaaattggc gatactaaca aaaactttga cgaggatggc cgcgacaaaa gaactgggac 180
atggatgacc gggagtgcac acataataac ggccgtgata gggtcgggag tgttgtcttt 240
ggcgtgggca atcgcacaac ttggatgggt ggcaggaccc gccgtactaa tggctttttc 300
tttcataaca tattttacat caaccatgct tgccgattgt taccgttccc ctgaccctgt 360
taccggcaaa cgcaactaca cctacatgga agttgtcccg atcctatcta ggaggaagaa 420
aagtgcaatt atgtggattg gctcaatacg ggaatctgat tgggataaca atcggnttcc 480
caatcacagc ttnaattagc atggtggcag tgaaaaagtc naattgggtc cccaaaatgg 540
gcataatggt aaatgggccc ctttaaacac ttcctttatg ancatatttg gaatcttcca 600
antattctta 610

<210> 3110
<211> 659
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B8
<400> 3110

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cactgtggtg accagccttt ggtgaagaag aagaagagag acnggaaaac ggtgatcaac 120
ggactcgtca gtctagtgtg gtctctctag aaggaagtcg acgctaggac gacgcgcggt 180
gtcgaggcct actccggaat taagaaccgt aaccattaga cggagtgccca tgctcctaag 240
agatgtaatg acggcaccca tactcctaata tccggtaaaa tacgggaaaa gtcttagacg 300
gtcgtcagag ccaccgccgt taccgagaat ttataggata ctactgctta gctagtcagg 360
tttcacggat agagagtcgc gccgaagccc gtctagcata tcggagttaa cgttaccgtc 420
ggaagatata tcttcggcat tcctattaac tagacgtaga tacttcctag cgaattaagg 480
tcgccgacct ccatcgggtt aagaatcgat tattattcac taaggaaggc gtccccgggaa 540
ataccttaac taccgnccct cgcgattana tctcctaacy agaaccggcg gtaccggcac 600

ttantaatat tagggaaagt atataccggg cgccccctcg gtcctcggtc tgtacggnt 659

<210> 3111
<211> 660
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B9

<400> 3111

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tgtgaccctt gcaatttcga tctctgcaaa gcttgctcag atcttcccca gaaaatgtca 180
caccatcttc atccggagca ccctctagaa tttcgtatag gcgaagatga tcagaagact 240
aaacacatgg tgtgcgctcg gtgcggaaac atgtcttctg gagccaaata ctattacgag 300
tgtagcaagt gtgagatcta cctcgatttg ggctgtgcac ttcagaagaa catagcgacg 360
agttgggaag ccaaagaaat gtcccattac agccatgaac acttacttaa aagggtgtagg 420
ccaggaccag attccaaaga ctcttgctt ctctgtgagc aacctctctc cttcactgca 480
atatgttacg gttgcgttca ttggtacttg ntttttcacg agcgttgcct tgatctacca 540
acccgagatt caacatccgt gcattctatg caccctntna aacgccttaa ttatatcaaa 600
cttttgacng tgagaaatct tgtaatgcct gtcacgggca atttgtggtg tccatttggt 660

<210> 3112
<211> 610
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C1

<400> 3112

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gctataagta ctagtctctc gtacttccga gaagaagatt cacaatataa gcccgaaacag 120
caagactatc ccaccatact cacggacttc gagatccaca gggtagcggc cacgggcaag 180
gcctaagagc ccgaaaaggc cacggaggag aacgaaacct tcgcctccga ctaggctatc 240

gacgaatgac attgccgatt gcccgattaa actcgccctaa gatcgaagcc gcgcggggagc 480
 gttaaagact aagattagcc cgtgcattat acgagcaacg tctagatccg gatcancgtg 540
 gtccccgatcg atgagaatat ccgtcttgac gggcctctgg gctggggccac ggacggggagg 600
 actaagaatc tggcctgggt cagactacga atgcggggata cgaaattagt atgtccccgc 660
 t 661

<210> 3116
 <211> 636
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-011-Q1-K1-C7
 <400> 3116

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 gagagtcagt anaggacggc catctcggcg ccgaggccag ggccatctta acgaggatcg 180
 agaccactac tagagtcate tgcattctana acgcctccgg cgagaagggg aggagaacca 240
 gggaaccgat actctccgt tagaagagac ctaagcctta gccgatagcg ccgagtctca 300
 cgtcgagaag gcccaataata gaggtctctg cgttaccgtc tantcgagct ctcattgccat 360
 aagtcctctg gcggctccgt cgctcttagg gttcgccacg gcgccccgag acccgccacg 420
 gagagcggag tcaanggacg cgaggctact gcgagcggaa agtcntgcgt cgtatgcgtc 480
 aagcttacga agcctaagga cggncattcg ggctactcg gctaatttat ccaaggaaca 540
 tactgacgtc nancgaaata cgccccgtct anatangggg cgccgggaac taaggcgaaa 600
 ntacttccga tcgggatctc ctggtaaact aggatt 636

<210> 3117
 <211> 663
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-011-Q1-K1-C8
 <400> 3117

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 tccctatatc ntatattact cctcacggag cctaaaagtc taccactcc actgaaaaaa 660
 accttcccgg aaa 673

<210> 3119
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-D5
 <400> 3119

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 aagttgaaat cctagcccat aaagctgtgg gaggattcgt atctcattgt ggttggaact 120
 cgatattgga gagtttgggt ttcggcggtc caatcgccac gtggccgatg tacgcggaac 180
 aacaactaaa cgcgttcacg atggtgaagg agcttggttt agccttgag atgcggttgg 240
 attacgtgtc ggaagatgga gatatagtga aagctgatga gatcgagga accgttanat 300
 ctttaatgga cgggtgtggat gtgccgaaga gtaaagtga ggagattgct gaggcgggaa 360
 aagaagctgt ggacggtgga tcttcgtttc ttgcggttaa aagattcatc ggtgacttga 420
 tcgacggcgt ttcataagta antanaaatg cgtcattttc atgtaattgg gcatgtggcn 480
 acaa 484

<210> 3120
 <211> 353
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-E1
 <400> 3120

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 ttgtcaacat gaaaacatcc aaaaagaaat cgaaacaaaa aacaaaagaa aattaggatt 120
 ggacaatgga gctttcaaat ttggcaaaag caggattggt ttaaattatt ttaatattgg 180
 gttaacgtct ttttttgttt gtttccctct attagctaag ttttggttta gacttttagat 240

CCDS: 463666.1

cgaattgtgg agtttttagt ttttgacttt gtttacatca gcttttgttt nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg gcg 353

<210> 3121
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3121

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gccgtcccca agcgtaacga tctccgcttc aatcccgatc tcatcgcttg caccttcact 120
ggaactgtag ccategatct cgacatagtc gccgatactc gtttcatcgt tctcaacgca 180
gctgatctct ccgtcaacga tgccctcggtt tctttcactc ctcttctctc ctctaaggcg 240
cttgcagctc caaaagttgt cttgtttgag gaggatgaga ttctcgtgct tgagtttggt 300
gagattcttc cccatggagt gggagttctg aaacttggtt tcaatgggag tactaaatga 360
caaaatgaag ggattctaca gaagtactta tgaacataac ggtgagaaga anatatgggc 420
anttacccat tttgaacaan ccggatgcta ggaaatgctt tcaangt 467

<210> 3122
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E3

<400> 3122

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anantanaga tactacaaag tatacgacaa cttctttttt tgtttgtagt aataattata 120
gccaaaaata gacaaacaaa atggagagaa agcctcttga acttgngtcg acggataacc 180
accagaatcc ttctccgcc gtatacggtg gctctgttac ggcggttgac tctgttgaag 240
aagatgttca gaatcagaag aaagtcgttt atagaggctg gaaagtcatg ccctttatta 300
ttggaaatga gacatttgag aagcttggga tcattggaac actatcaaac cttctggttt 360

atttaactgc agtcttcaac ctgaagagta ntacagctgc aaccatcatt aacgccttta 420
 gtggcacaat taatttcgga actttcgttg ctgcttttct ctgtgacact tacttcgggc 480
 gatacaagac tctaantgt 499

<210> 3123
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-E4
 <400> 3123

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 actaaagtga agggtaaatac aaaagttggt gagccggaga aagcagaact tgggtctgaa 120
 aaatctgaag aattggccag ggtaactttt attttgaagt tgttgagtga tattgttctc 180
 atgtacctac atgggtaccag tgtcatactg agacgggata cagaaatata tcaacttcga 240
 gggteccaatc tacctgatga ttcacctgga aatggagggt taattttacca tgtcattcat 300
 cgattgcttc ctatatctct cgaaaagttt gttggacctg aagaatggaa ggagaaaactg 360
 tctgaaaagg cgtcctgggt tccnggttgt tttgtgcagt ccttccaatg aanggcgtaa 420
 aagaataatc aatgagct 438

<210> 3124
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-E5
 <400> 3124

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 agctgcgatt aagcaacgag aagccattga agctgctcaa agagctagaa gacttgacgc 180
 catcgaagcc cagattaagg ctgatcaaca tatgcaagag agtttagtat ctggagatgg 240
 aatagtgttt gaacgagtct tccaagctgt ttcttttcaa ggaaatggag ataagattaa 300

604733-11666666

ttggaggaaa tttgtggcag aatacttttc acctcgtgca aagcagagat tgtgcttgtc 420
acaagtacaa aagtgtggtg caccatgcgc ttggcatgtt cccanaggc 469

<210> 3127
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F12

<400> 3127

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cccactaagg atcctcagaa ttctaaagac aagtgtgtgg gaagtattca atttggctcc 120
ttgaatcttg ctgcggaaaa ttcttcagta aatactaata gcgagttgaa gaaaggtgag 180
gctgatggga cagttaaatc tgctgggtct caagagagac ttgatgcttc tagacctgcc 240
agctcggata agaacaatga tagtgatgca aaactcccaa gaaagaactc tttgagagtt 300
ccagagcatg tggtaaaaaa tggaatcata aangagatct ctgaaagcaa caaatctctc 360
aacaatggtg tggcgggtgaa aacaaatccn attgggtttg anaacttgcc aagtcca 417

<210> 3128
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F3

<400> 3128

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gcaaacgctt ctagagcggc catggttctt cgctgtggct ctagctggtc ttataggtgg 120
cgcaatgctc atcacaagct tcacccgagc tacggacaan accttgtcac tctgctccac 180
ggctaagaac acagctgcgt ctatagccaa atacacagcc accccaatcc aactccaatc 240
catcgtccac tacgccactt cacacaccgt ccctcaacaa tctttcgagg agatctcgat 300
ctcttttaaac gtctcaagg agcgtctccc ttgtaacttt ctagtctttg gcctcggccg 360
cgactccctc atgtgggcct ccctcaatcc aggtggcaca actgtgttct tggaagagga 420

tinctgantgg atagaggccg tcttcaagga cgcncatcc ctcaagggcc aacatgttca 480

a 481

<210> 3129

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-010-Q1-E1-F6

<400> 3129

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catcgctga ttctccgact ctcgatacat cggagcaggt ttacatctct tctctcgctc 180

tcttcaagat gcttaagcac ggaagagctg gtgttcctat ggaagtcatt ggattgatgc 240

ttggagagtt tgtggatgaa tacactgtta ggggtgtgga tgtttttgcg atgctcaga 300

gtggtactgg tgttagtggt gaagctgttg atcatgtntt ccagactaat atgctcgaca 360

tgcttaacca gancggaaga ccttgagatg ggtgggttg gttgngtatt attcacatcc 420

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tcanggaact g 491

<210> 3130

<211> 447

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-010-Q1-E1-F7

<400> 3130

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ttttccgacg atatgaagct caccgttaaa actctcaagg gcagtcattt tgaaattagg 180

gttttaccct ccgatacgat aatggcggtg aagaagaata tagaagattc acaaggaaaa 240

gacaattatc catgtgggca gcaattgttg attcacaatg gaaaagtgtt gaaagatgaa 300

actagcctgg tggagaacaa agttacggag gaaggatttc tcgtcggtat gcttagcaag 360

agcaaactctg gaggttcagc tgggtcaggc ttcggttcag acttcttctg tttcacaacc 420
tgtttccgct accacatctt cgactaa 447

<210> 3131
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F9

<400> 3131

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gagcacctcc tagtattttt gtgaatgatg ggatcattcat ggaaagattc agacagcttc 180
aacaggagaa agataaagac aaggataagg ttgtccaagt tgaggattct aagccggtga 240
agattatatac aaatcccaaa cctgctgcta ataaaatttc cattggatta aagcccaatg 300
atgccagaa gaaaggtggt aagcttgctt tcagcttgaa gcaaaagtct aagcttcttg 360
cacctcctgt gaancttggt acagaagaag atgaggatga tgaggatggt aaacatgaac 420
aaggctttgg atccgtaaac c 441

<210> 3132
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-G10

<400> 3132

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ttgccttcac gacttatcat tgtcaatgac aagcctttta gtgaagatga gctttacacg 180
ttgcagacat gtccaaatcc acccaagaag ctaaaaccg gacactattg gtatgataag 240
gttgctggct actggggaaa gataggagag aaacctagtc agattataag tcctaacaac 300
agcataggag gatacatcag tgagaaagta agcaatggan aactgaaat ttatattaat 360

atggctgaga tgaagaagac tgttattgat ctctttcaac gtccatacga ggtgaaagtg 360
 cgtaacaccg atgtgctcct agggagtggg tacagagctc canacgaaat caatccttac 420
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<210> 3135
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-B9
 <400> 3135

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 ccgcaacgaa tgatgaatct gtctgcacca tgttcggatc tcgctatgtt cgcactacac 120
 ttcccaagta tganattggg gagaattcga taccgaaaga cgctgcgtat cagatcataa 180
 aacatgagct gatgcttgat ggtnacccaa ggcttancct agcttctttt gtgactacat 240
 ggatggaacc agactgtgac anactcatca tggactcnat caataatgaa ctactttgat 300
 atggatgatg taccctgtca caactganct ccaaagncca tgtgtaaaca ttataactcg 360
 actgttcaat gcgccactcg angaatctga gacggcgggt ggagtaggga cagttgggtc 420
 ttcataagca tcatgttaac ccngattggc cttcaaaaaga aatggctgag cna 473

<210> 3136
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-C1
 <400> 3136

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 taagagataa gttcatcctg acaacatgga gaccaagaat gagaattctg atgtttcacg 180
 ggcagaggag tttaaaagtc aggccaacga agcttttaaa ggtcacaaat actccagtgc 240
 tattgatcta tatacaaaag ctattgaact caacagcaac aacgctgtgt attgggcaaa 300

tacaaacggt accacatggc aagggacttg ttatctcact cctctcattg gagctgttct 360
ggctgatgct tactggggac gttactggac catcgcttgt ttctccggga tttatttcat 420
cgggatgtct gcgttaactc tttcagcttc agttcccggc attgaagcca ncggaatgta 480
ttggtg 486

<210> 3139
<211> 454
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C4
<400> 3139

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tgatctcact attgttggct tagaccttgt tgatggagac tcaagttccc agagccaact 120
tcaacaacaa ccacattacc tgaagacatg ttccaaacca aacctggatc tagggagtgt 180
ggtgtacctc ttaggctatg ccaatcagaa tgaactcaag atcggcgagg gaaagttagt 240
tgtagctacc gacaatctca tcaaactctc aactgatgaa atgatttgga gtcctgnatc 300
tgctggattt gatgttcaag ggaatcttgc attcatgatt tgtgatccga ggaaactatc 360
gacatcacca acctcaacct cgtcatcttc ctctcctct ttgaagaaaa gattncaaca 420
angacactga tgatgcactt tgggtataca atac 454

<210> 3140
<211> 429
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C6
<400> 3140

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taccgacaat acccctgaaa attttgaggc catggccagc acatatcaaa tcaactttact 120
gttttacta gcaaagagat caaatcacat ggctctggtg cagtgttttc agctggcatt 180
ctctcttcga aatctctcat tgaatcaaga tggaggtatg cagcactctc gtanaagatc 240

gaagttgaag acggcgataa tattgaagat caacaattca gtagatggnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngatga 420
 aaaaaaaaaa aaaaagggc 439

<210> 3143
 <211> 588
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3143

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 ccgtncgggg ggtnnaaaaa aaaattgggt ttncaccna angnanacca agggncnncn 120
 aaaacaaaaa ggggcccggga tttcaaaca caatttggga ncctggggttg ggtcaaattg 180
 ggaagcctca atcaccaaga actncgggct taaattgcta aattttaaat ccgaanggan 240
 gggagggaaa ggggtgcatt agagtgggcc aagaaggggc acataagaac agcttgaaga 300
 caaagctcat agaagcaca atcgagagcc aaaagggttca gctgaagcat gtccttgagc 360
 ataagatcta ggccacaaca tattccaaaa ctaccagtcc taggccattc tactaatctt 420
 tgtggctgag cagcaagaac tggatttttg attccgttct cctgctattg ccattgtcgc 480
 atgatctaac gctgggtcaa accaatcaac gtgggtatat ttctggtanc taaaagcaaa 540
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<210> 3144
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-D11
 <400> 3144

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ctgccatcgt ctcgctccaa gtcacatcc ttctccgtct cctgcaccat cgccaaggac 180
 ncgcctgttc tcatggccgc cggatntgac ccggccctgt ggcaacgaan cgattcgttc 240
 ggtcgtttgg gaagtttggg gngaaagtat gtacctgaaa acccttatgc acgctccaat 300
 ctgagcttga tccgctttct atgctcttgc nacggacnat gatttcnana nagenttggc 360
 tggaatcttg aaggactatg tgggtanaga aatcctcngt attttgcaaa aagggttacgg 420
 agcattacag gcncaaaatg g 441

<210> 3145
 <211> 429
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-D12
 <400> 3145

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 tattgtttca tgtatatggg cgtcatcaaa gttcttcgaa gaacatttta gtagattcat 180
 ctccatttcc ttctgatttc ctctttggta cagcttcttc cgcttaccag tatgaagggtg 240
 cgttcttgac tgatgggaaa aagtttgaac aattgggatg tctttacgca taaaatcctg 300
 ggaaaatact tgacaagaac aatgcagata gagctgtggg accaatataa tccgattttg 360
 ggtaattcct aagataatta attcttcaat tttgtcctgn caactccttt acatatanat 420
 cccatataa 429

<210> 3146
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3146

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gaatcgtgta gttccgatta cgagactctg gtgggtcaag attttgttct tcagtttgaa 180
 ccaaaggtga aagagattgt tgaagaatac ggcatgttg atttattgga tgttgaagat 240
 tcagatgctt acttggagta cttgagaaat gagcttcagt ctgtggaggc tgaaagtgcc 300
 aaagtttctg aagaaattga acgtctttct cagtctcatg cccaagattc tagtangttg 360
 caaagggatc ttgaaggtct tttactgtca ctgggattct atgtcatctc aggatgtgga 420
 gaagtcaaaa gagaatcaac catctagcaa gctc 454

<210> 3147
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-H1
 <400> 3147

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 gaggaactc agattggtgg atttacctga gaattgtgta gcgttgatta tgacacggct 180
 tgatccacct gagatttgcc ggcttgctcg tctcaacagg atgttccgtc gcgcttcctc 240
 agctgatttc atttggaat caaagttgcc tgcgaattat cgtgttattg cacacaaggt 300
 gttcgatgaa attactctga cgaaattaat aaagaaagat ttttatgcaa agcttaacca 360
 gcctaaacct cctcgacgat ggnacaaaag gaattgtgga tagataagaa caacnggtcc 420
 gcctttggtt aaccaattc ctcaaa 446

<210> 3148
 <211> 534
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-H10
 <400> 3148

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 gaagaacagt cttcaacaac aaactaaaaa catgtttcta aagttgtttc ttctcttate 120

tttggctctcc ttctcacact cagactcttc ttccacagtt tcttgtccta acggcacaga 180
 cttccatcaa ctaaccacag tttttcggtta cgtctccggt ttcaactctt cctgggtctc 240
 ctcaaactgc tccgcggtta tcaactcagc cgttcttccg tcaagaaaac taaacgggaa 300
 cgttttcttg ggaaccctaa tacgtaatct caanggcgcc ttaagtgggt ccttggattc 360
 tcttccaaaa naaactcctc ctccgaaagg ggttcnccn ttcccaaant tgggggtccc 420
 gggncccaaa ggccaaaggc ccctgggtcc ncccgggtta aatcncctc cncngggnaa 480
 acggggnttt ggggtggggn tccccaaaaa ngaagtggga tttccaagtt ttaa 534

<210> 3149
 <211> 414
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-H11
 <400> 3149

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 aaaatctcaa gcaaaagaaa aaatggagct attcacaaaa ggtaacaacg ttaagttacg 120
 tagccaccta gataagtttt tagtcgccga cgatgaccaa gaaaccatcc gtcaaagccg 180
 taaaggagat gcacggcgtg ccgtttggac ggtggagccc gtcgtcgata aacctaattc 240
 gataagggtta aagagcagcc acggcacgta cttaacggcg agcaacaaac cgttattggt 300
 aggtatgacc ggtgagaaag tgactcaaac ggcgtcgttt aacaagctga tggattggca 360
 aacgcantgg gaaccggacc aaaatgggtt caggtgaacc taaatccttg ggnc 414

<210> 3150
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-H12
 <400> 3150

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 aaggaaactt acaatttaca aagaacgagc ttcaataaaa atttccaaag aaattaccgt 120

cggcgaatcg ttaggctcga gaagaatcac caaattccaa ggggagagag actgaatttt 180
 cttttgattc acgtaacaac aacgctcaga gactatgtcg tcggaggtga aacagctgat 240
 cgtcgttgct gaaggcaccg ccgctttggg tccttattgg caaacatcgt ccccgactat 300
 cccgagaaaa tcacaaggcc ttccgggtgga attgagttta attggaaaaa ggaacccggt 360
 tccaacggnt gaacnaacan cggggatntt caaatcccaa ggggtcaaat gtgcctgcct 420
 gggnacaaacg gantggctgg acnaaggang ttgataattt cctgcaatgg n 471

<210> 3151
 <211> 521
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-H4
 <400> 3151

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 aattccggtt annagaacga acgaanggtt tcaagattcg ttccgtnggt ncttnacna 120
 agggggaacg ttgaaagggc naaagtttgt tccanggttt taccggttcg cnanatgggg 180
 tgattcaaca atcgaagaag aaatccacga angggagaaa ggtgaatggg nacaaaccgt 240
 gaacgttggg gattcagccg tcgaaagttg tgataacgaa gcttcgtctt gataaagata 300
 ggaaatcgct tttggagagg aaggctaang gacgtgctgc tgctgataag gagaagggta 360
 ctaagtttac gtctgagggg tgttatgcag aacgttgatt aagttaagaa aggaagaaga 420
 aaatccttcn tgaaaagggg tttaaccttt ttagaagttt atccttcaaa tccgcctttt 480
 taanttttcc aagttttggg taatttttgg naatgtttgt c 521

<210> 3152
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-H6
 <400> 3152

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atcagccatg ctgatcttct tactagcatt ggtcatcgca tcttgtgcca cggccatgga 120
catgtccgtt gtttctcca acgataacca ccacgtgacc gccgggtccg gccgccgtca 180
gggtattttc gacgtgaag ccaccttgat gttcgagtca tggatgggtca nacatgggaa 240
aagtgttaca actccgttgc tgaaaaagga acggcgtna actatttttg anggacaccc 300
nccgtttaan cacnaancgg ganngctgag aacctcantt accggcttgg tttgaatcgg 360
tttgcggtt aaccnncaa ggaatacggg aaaatttgcc atggggctgn tcaagaactc 420
caaggaacca cttcttcaga acaan 445

<210> 3155
<211> 397
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A11
<400> 3155

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aatttggatg gaaacctcaa ctttatccaa agataatcat aaaggaagaa gctttcgttg 120
ttgtttccat tgttgcagct ccttcaaaaa ctcttgcttc tattgctttc acagctaaga 180
attctcgatt ccacgttgtt cgttttcgat ttgacgaaa ttgggttctt ctagatttgg 240
ttatggaccg tanagctcaa tcagatctct ctttaggatt cggtagctcc cacgctttac 300
ctctacctca nctctctaga atcccaatcg ctgatgactc aatcacgctt canattgatt 360
ccagettccg tcttctgtca atccnaagcc tctgtc 397

<210> 3156
<211> 483
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A2
<400> 3156

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atggaactat ccgttattga tggctgtctg gaaagtcgct ccttcacttg ctgctgggtg 120

cacggctata ctgaaacctt cagagttggc ctccctgaca tgtttggagc tcgctgatat 180
 ttgccgcgag gtgggtctac cacctgggtgt tcttaatat ctgactgggt taggaactga 240
 agcaggtgct ccaactggcat cgcattccaca tgttgacaag attgtattca ctggaagcac 300
 aacaactgga agcagcatta tgacttccgc tgccaaattg gtgaaaccag tttccttgga 360
 gcttgggggt aaaagcccta tcattgtctt tgatgatgtc gatattgata aagctgtgga 420
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 ttc 483

<210> 3157
 <211> 442
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-A6
 <400> 3157

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 ttgttaacct tgatcctgct gcggagatct tcaactatcc tgtggctatg gatatcagag 180
 aacttatttc tttggaagat gtgatggagg atctaaagct tggtcctaata ggtgccctta 240
 tgtattgcat ggagtatctt gaggatagct tacatgattg ggtggatgaa gaattggaga 300
 actacagggg tgacgattac cttatctttg attgtccagg ccaagataga gctgtttaca 360
 catgttcttg tgctcaagaa ctttgtggag catttgaagc agaanaactt caacgtctgt 420
 gttgtttanc tgcttgattc ac 442

<210> 3158
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-B1
 <400> 3158

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 ccgcgattct tgggattcta tcgattcttc atttatatat aaaagcgtga aatgangatt 180
 atgatggagt cgaaaggggtg ggtaaaaaga agtccaagca gtagtagttc cttattttac 240
 gaagctcccc tcgggttaca gcattgaaga cgttcgtcca aacgggtggga atcaagaaat 300
 tcaaattcttc tgtctactca aactgctcca agaagccatc ctgaagtacc aacgtgcacc 360
 gatcttcata atataattat aagccttctt tacttccaag tttanaantt tcctcctttc 420
 aaagc 425

<210> 3159
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-B11
 <400> 3159

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 nnnnnnnnnn nnncaagctc cgccacagca gataccgata gaaactccga tcaatcagcc 180
 tcttctcag tcctctccgc ttccaattct cttctccgtg atacctccga cgaagcttca 240
 gctgcaggac caagcgattg gaaaacagca naagcttatt gtaaaagtgg tgatacattt 300
 gaaggtgaag ttcaaggntt taatgggtgg ggcntactta atcgttttca atctcctgtg 360
 ggttttcttc cttaaccaca attaagttct tcccgttctt gtaaagagcc tcaaaaaagt 420
 natcaagaaa tagc 434

<210> 3160
 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-010-Q1-E1-B12
 <400> 3160

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ctactcagtt ttgtagtgca gggagagaga atggtgtggg atcttgtggg gtttcatcga 120
cgaggatfff gattaaagga ggtactgttg tcaatgcaca ccatcaagaa cttgctgatg 180
tttatgtgga aaatgggtatt attgtcgctg tgcagccaaa cattaagggt ggggatgaag 240
tcaactgtcct cgatgctact ggaaagtttg tcatgccaa angaattgac cccacacgc 300
aactcgccat ggaanttaag ggtaccgana ctaatgatga nttcctcant tggtaaggc 360
ancggcaatt acctgggtgga acaactatgc ataaaaaact ttgttaaacc tgtcaatggg 420
aaaccng 427

<210> 3161
<211> 401
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G7
<400> 3161

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ggaagcattt ctccggttat caaaagctcc ttaactata atcagaagga gctttccaga 180
cttggagtcg ccaaggatct cgggtgatagt gtcggattca tcgccgttac tctctctgag 240
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tgggttttggc ttatcgctac cggctgagcc ccgattctcc tctatgggct atgtgtgttc 360
catattcttg ggaaaatggc gagacctact naatactgga g 401

<210> 3162
<211> 340
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F5
<400> 3162

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aatataaaa atgcttaaac agttaggctc acgannnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnnn nnnnnnnnnn ncagccaaat tgggtcaaaa agaaaaccaa ataggcnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnacatag agccccaaag tgtaaagtct cttttctgtt 300
 aaaataatta ttatgtccta aaaaaaaaaa aaaaagggcg 340

<210> 3163
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-G1
 <400> 3163

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 ccacaagtga aagtaaaaga gggggaagaa agattgataa atgaagaagt ggtgaatgtt 180
 acattaagaa gaagtttgag attctactca atacttcaat cacaagatgg tttttggcct 240
 ggtgattatg gtggcccttt gtttctcttg cctgctctgg tgatcggctt atatgtgacg 300
 gaagttttgg atggaacttt aactgcgcaa catcaaactg aagattcgtc gttatctcta 360
 taaccatcag aacaaggatg gaggatgggg actacacgta naagggaata gcaccatgtt 420
 ttgtcaatgc tcna 434

<210> 3164
 <211> 415
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-G11
 <400> 3164

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 nnnnnnnnnn nnnnnnnnnn nnacttttta taatttatcc gcttgctgc tatctcttac 120
 attaaatcta aacctaaatc attagaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnggcat ggctggcttc gatctaggca 240

caacttctcg ctacgtccac aacgtcgatg gtggcggcgg cggacagttn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn aggtttaaat ttaatagctt cnaatgataa ctccggacta agngg 415

<210> 3165
 <211> 490
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-G3
 <400> 3165

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 cagaatactg agagatcatg aagccgatgg atgggaacgc tccgatttcc caatcatctg 180
 cgaatcttgt ctcggtgaca acccctacgt gcgaatgacc aaagcgaatt atgataagga 240
 atgcaagata tgtacacgac ctttcacggg gtttaggtgg cgacctggcc gggatgctag 300
 atacaagaaa accgaaattt gtcagacttg ctgcaagttg aaaaatgttt gtcaagtctg 360
 tcttctggat cttgagtatg gtcttccagt tcaagtaaga gacacagcac tcaacattag 420
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 caggaaggct 490

<210> 3166
 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-G4
 <400> 3166

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 cttcaatctt ccataagatt ggagctttcg aggaggagct taaggcagtg ctaccgaaag 180
 aagtggaagc agcaagagca gcctacgata acggaacatc ggctatcccc aacaggatca 240

aggaatgtag gtcgtatcca ttgtatagat tcgtgagggg agagcttgga acagagcttt 300
 tgaccggaga gaaagtgcg tcgcctggag aagagttcga caaggttttc acggcgattt 360
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 ntccaatatg 430

<210> 3167
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-G5
 <400> 3167

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 aatcatggag aagctaccag gtcacatcatg acctactaac actggtgttg ttcaccacga 180
 agaagaaagg gattgacggc gaaagttatg ggcgagctgc caatgtcatc catggtgcta 240
 ctgggtaccg gtggtngttc accanganaa ngaanggaat gacggaaaaan gtnatgganc 300
 anntgccagg ncaccatggt tcacaccaan ctgganccaa cacaacttat ggtacnacna 360
 nactggtgg tggtcaccac gagaaaaaaa gtgtgaccga naaattatgg agaaactacc 420
 aggtcatcat ggg 433

<210> 3168
 <211> 475
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-G8
 <400> 3168

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 gttgtaactt ataattccat aatcgatgcc tttggtcggt ctgcaactat ggacagatca 180
 gccgattata gcaatgggtg atctttgcct ttctcttctt ctgctctgag tgcattgact 240

CGTGGTTC

acagtgagga tcatggtgaa ctacagaatg cctggcagct tttatatcta gtggtaaaca 300
aagagttgct cacatggagt ggtgatnccg gttttactan ganaaatttg cttgatgcga 360
ctctaagctt ccaaccctga tctgggaagg tcaaaggatn tccncttgc tgggaagtac 420
attcngcagc tta 433

<210> 3171
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H3

<400> 3171

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gaaccttctn ancccctaata taciaagttc ttgtcctgtg ggagaacccg attttcaaata 120
ttccccctgg acaaagggat tcatgtcaaa cgccgtctct tttcgtangg gtacgatgct 180
ttcaagcaaa aagcataaag ctactcagca agaacattca tttggagaaa gcagctgttc 240
tattcaatct tgggtgctagc tacagccaga ttggactcgg tcatgaccgc accaccgtcg 300
atgggctgctg tcaggcttca catgcgttca tggctgcagc anggggcggt cgctcacttg 360
agggataacg agtccattaa ggcgacgacg gggccgagca ctaacgtgga tgtgtcgggt 420
gaatgtgttg gaatgttgga acngg 445

<210> 3172
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H7

<400> 3172

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naaggttctt acagccattg ggaacttctg tatctgttcc attgctatcg gtatggtgat 120
tgagatcatc gtcatgtatc cgatccaacg ccgaaagtac agagatggaa ttgacaacct 180
tttggctctc ttgatcgggtg gtatcccat tgctaagcct acagtcttgt ccgttgaaca 240

anggtattgg gtcccaaaag gtngtcccaa gcaanggtgc aannacaanc cttataactg 300
cnattganna natggnagga ntggatgtcc tgtgcantga caaanccggg acactaacc 360
tcaacaaatt gantgtggac anaaacttgg tcnaggtttt ctgcaagggt gtggana 417

<210> 3173
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H9

<400> 3173

cgacccttta taaatctcac ttccttcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnctatccag ttccttctgt 120
gcgaagttct tctgattaat ttgagtttct tggaagcttt tactcgatcn tcatcggtac 180
ttagggtttt gtttaaatec agatcttggg ttttgtaaa taatggcgac tccttatcct 240
ggagcgacgc angtgggttc gtactttgtg gggcagtant atcaagtgtt gcagcancag 300
ccagatctta ttcacaggtt ttattctgag cctantagag ctattcgtat cgaaggngat 360
tcaccganac tgnnaaatcc ttgntgnata ttcanaacat gggtaagtca c 411

<210> 3174
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A2

<400> 3174

gcccgtctg acaaacgggt ccancacgcg tccgntcttn attcacttag tggtagctca 60
tcggttgagt gggcagaagg tgcatttggt gcacagaagc aaccacttac ttggtacaag 120
acgactttct ctgctccagc tggagattcg ccattggctg tagacatggg aagcatggga 180
aaaggtcaaa tatggataaa tgggcagagc ctgggacgtc actggcctgc atataaagca 240
gttggttctt gcagcgagtg ttcttatacc ggaacattca gagaggacaa gtgcttaaga 300
aactgtggag aggcttctca aagatgggtac catgtcccaa ggtcgtgggt aaaaccaagt 360

gttatcctct ccgaatgatt ccaagtcaat caagganaat tgtccnttaa gcacaatt 418

<210> 3177
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D12

<400> 3177

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cctaccacag gaacaccaac tactgggaca ccaaccagtg ggaccccgac taccggaact 120
ccgaccaccg gaacccccac cactggaact ccaaccagtg ggactccaac tagtggcttc 180
ccaaataccg ggactccaaa cacagggact aacactggga tgccaaattc caacgggatg 240
ccaacttcat cgtcatcttc ggtgttcccg gggactactc ttggcccgac tgggagcggg 300
ggactaggcg atccaaatgc tggaganaag ctgtctgttc gaactaacac agtgggtcttc 360
ttattaaccg gtgtagcagc aatgcttgtc atatgagggc ttanaantca cacgcgggta 420
tggttgtaat tgaattgctg aaaaattaaa tnttgccaa 459

<210> 3178
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D6

<400> 3178

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atcatttgct ttggtcatag tcttccttag ttgtctcadc gccgtttatg gccaaaggtac 120
gaggatcggg ttctactcga ctacgtgccc taatgccgag acaattgttc ggaccactgt 180
ggcatctcac tttggttcag atccaaaggt tgcacccggg ttactganaa tgcacaacca 240
tgattgcttt gtccaagggt gtgatgggtc ggtgctttta tcgggacctc actctgaaag 300
aaccgctggc gcaanacggt aacctccaat ggtttttgag ggtccatttg acgaatgcca 360
aanaagggca agctccgaan ggcaaacaat gtccctnggt ggnttgtcct ccttggttgc 420

cngaaaaatc cttgggcctt aaaccgggct ccnttgaatt ccgggttttc ctctccgta 480

<210> 3179
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D8

<400> 3179

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attgctcctt ccttcgtacc cctctctctg tcttttgagg ttcccggtc gggttggtga 120
gaaaactcca gcggcttaac ggatcttcca ctggtagttt tctgttcttc acaaggaaat 180
cgaaaatttg ataaagcgaa agtganaaag gcgtgtgttt tctttgtaaa ggctccaact 240
tttttgatga ncagcttggt cttgtngtga aagnttgta ctttttggt nantggnant 300
tgggggtttt ccttaangtt ctgaaggagg agnaaaggag aaanccttct tggaatttgg 360
atncaaattt gngctcanan ggngagtctt aagggttttg tttgtgattc cngga 415

<210> 3180
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D9

<400> 3180

cggtagcgat atgtgaattc gcgggtccga cccacgcgc canccacgcg tccgcggacg 60
cgtggggcctt gacgctgctt caaggtatt cttctnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnncttc tgtgtttgat ttctctgcat ctgctcttc cgctaaaaac gccggccttc 240
cttcagctga cgacgttttc tctcagattt cagggccacc ggagtttcta aacaaccgca 300
cagaagcaga taatgaagct tcagctagag atgcagaaca tgcaaactgt attagtcgca 360
aaaagaagaa agttaaacca aaaggtgttg tcatggaagc aaaacctcaa ctagtaggaa 420
tccatgagag agtaagaaac gatattgatg caccctcatc ttcaa 465


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<211>      416
<212>      DNA
<213>      Arabidopsis thaliana

<223>      unsure at all n locations
<223>      Clone ID: LIB22-008-Q1-E1-F11
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<400>      3187
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gtgcttcctg	atggacccaa	acctcgggaa	gcaagtttgt	tatgttcagt	tcccacaaag	120
at ttgatgg	atcgataaga	acgatagata	tgctaatcgt	aataccgtgt	tctttgatat	180
taacttgaga	ggtttagatg	ggattcaagg	acctgtatat	gtcgggaactg	gatgtgtttt	240
caacagaaca	gcattatacg	gttatgaacc	tccaataaaa	gtaaaacaca	agaagccaag	300
tcttttatct	aagctctgtg	gtggatcaag	aaagaagaat	tccaaagcta	agaaagagtc	360
ggacaaaaag	aaatcaggca	ngcatactga	ctcaactgtt	cctgtattca	acctcn	416

gcagcataga	tgatcctgcg	aaagcgagtt	tcttcgagtc	ataccacaca	cctgtcccca	60
tccataaacac	cattgctacg	aaattgggga	taaaagaatc	tccaatcaag	atcaacagcc	120
agactaagta	tgcagcttta	tctagaggag	atggagaggt	ttacttgagg	tttactcgca	180
aagcaagacc	cgaatcaata	tggaatcacg	ctgctggctc	aatcattggt	tcagaagcag	240
gagggaaaagt	gactgatgca	gcaggggaatc	cattggactt	ttcgaaaggg	aagtatcttg	300
attacaagag	aggaatcgtc	gttacgacgc	agaaactggt	gccaaggcct	ttaacnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnna	aagctgcttc	tccaaaactt	420
cactaac						427

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A2

<400> 3191

aaaaatcnan aatgacttcn cctactgcga ctaagtatga tgtctttctg gagtttcaga 60
gggagtcgac actccgctgc aacttcatca gttttctcta canagaattc gttcgaagga 120
aaattcgaac tttcaaagac gacaaggagc ttgagaatgg ccggaggatt tctccggagc 180
tcaaacgcgc catcgaggag tcgaaattcg ccgtcgttgt tgtctctgta aactacgctg 240
cgtctccttg gtgtctcgat gagcttgtga agattatgga tttcgaaaac aagggttcca 300
tactgtgat gcctatcttc tacgggtgtg atccgtgtca tttgaggagg cagatcggag 360
atgtcgtga acagtttaag aagcacgang ctagagaaga agatcatgag aaaattgcnt 420
cgtggagacg aacattg 437

<210> 3192
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A5

<400> 3192

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cggaaaaaaa cttctctctg agatcagatc tcttacgatt ctcagctcaa tcttatcttt 120
tcctttgttg tgctgctttt cactctcttc tgcgcgacga atttggcctt gttttttggt 180
tgtttgctgt atccgacgcg gaggtattga gaaaccgtgg cttaagacgg aggaagaaga 240
tggaagctaa cgggattgag aacttgacga atccgaatca ggaaagagag tttataagga 300
gacatcataa gcatgagctt gtggataatc agtgtagctc ctacgcttgg ttaaataaa 360
caacgctccc ggtcaaaatg gtgggtggcca cttgtgaaga aagatttgnt nagccacaag 420
aagtataanc cgtttatcag t 441

<210> 3193
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-A7

<400> 3193

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aaaatggcga atggagctaa tagagtggat ctcgacggga aaccgatata accgttgaca 120
atatgcatga tcggcgccgg aggtttcatc ggttcacatc tctgtgaaaa gctcttgacc 180
gagacgccac ataaggtgct tgcgctcgat gtttacaacg ataagatcaa acacttgctt 240
gagcctgata ccgttgaatg gagtggtcgg atccagtttc atcgtatcaa tattaagcat 300
gattcgagac ttgaaggtct tgtaagatg gcggatctga ttataaatct tgctgcgac 360
tgtactccag ctgattacaa tacacgtcct cttgatacta tctacagcaa tttcattgat 420
gcgcctccag ttgtgaaata cggctctgaga acacaa 456
  
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<210> 3194
 <211> 414
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-A8

<400> 3194

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ttcttcttct tatcattcac atcgccgtgt tgttgtcact ggtctaggca tgggtgactcc 120
acttggtaga ggcgttgaaa caacgtggag gcgtttaatt gatggagaat gtgggattag 180
aggattgact cttgatgac tcaagatgaa gtcttttgat gaagagacaa agttatatac 240
ttttgatcag ctttcttcta aagttgctgc ttttgtgcct tatggattaa accctgggtga 300
at ttgatgaa accctttggc taaactccaa nggaattgcc aaattttaanc ggataatgcg 360
gtanttgctg ccgatnaanc tttgnaanat gcanagtggg tacaaaactga agaa 414
  
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<210> 3195
 <211> 415
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-A9

<400> 3195

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cgctacaaac gtttcttctt caacctcggt cagagattat cctcccttct tttctcatct 120
tacaaggaag ttgggcaggt aaagctgctg ggatcaccag ttttgcataa agtggagtggt 180
gaagaatctt ttatgtctga acaggcttct ctctttcaat catctatccg gcttttagga 240
gagtactgtc ctatatctag gaaaaagtcc actcataaag ttggtgggtt gcgttttgag 300
gaggacatca cgagctgtat tggatttcag tttatgcaac tgagtgatta tcaactgcctc 360
ttctgacatc ccttggttgt ttacgttgtg tgaatcaaga tggctttgca aaaca 415
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<210> 3196

<211> 422

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-B10

<400> 3196

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cagttagagc gtcactgttt ggctcccgat ggatctcttg ttaccaaata tgtctactcc 180
gatctccaac tcgagagaga ggagatgtct cgggagagac ttcggtatgt ggaagctatg 240
gctatttatt gtgaagctgt agctatgggt gaagaatata agcaagctat ttcagtagct 300
aaccatgggg gaattcgtga tgttcaaggt ctataccctc aacttggctt gaagaattct 360
cctcangttt atgagactct anagcatang ttggtgggtt ccgaaggggg tcaaaaactg 420
aa 422
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<210> 3197

<211> 470

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-B2

<400> 3197
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 cgagttgata aacttcctta ctctattagg attctgcttg aatctgcgat tcgtaattgt 180
 gataactttc aagttactaa ggaagatggt gagaagatta ttgactggga aaagacatct 240
 cctaaacaag tagagattcc ttttaaacca gctcgtgttc ttcttcagga ctttacggga 300
 gtcccagctg ttgttgacct tgcttgatg cgtgatgcga tgaataagct gggaaagtgt 360
 tccaacaaaa tcaatccctt ggttcccggt ggatcttggt attgatcact cggttcaagt 420
 agatgtagct cgatnagaga atgcagtgcg agcaaactg gagcttgaat 470

<210> 3198
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-B3

<400> 3198
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 tgagagtctc cttgggtgca ttttcagag ctggagccct cgccgtcgaa aaccctcttt 180
 accggaaaaag gatcatcggg caaaagataa cttgtcttcc aagtcatcaa caaccgttac 240
 aaaccctaaa atcctcccaa gaaaatccac cgatacttct tctcaaccaa agaaatctga 300
 ctcccagaaa cccaacaaa agccaaaacc aagatgagaa tcaccgcgaa aatcatcggg 360
 atccgccaag aaaatcatct gattccgcaa agaaaatcga ttcgtcaggc tcatcaagaa 420
 cagagagcaa ngagatt 437

<210> 3199
 <211> 448
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-B6

<400> 3199

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 aggccaagaa cggtggcggtt ttccctcgtc acgatgctca gccaaaggtc gacgctccgg 180
 ttgagaagcc tgccaagttt tatccggcgg aagacgtcaa gaagccgctt gttaacagac 240
 gcaagcctaa gcctaccaag ctaaaagcca gcatcactcc aggaactgtg ttgatcattc 300
 ttgctggtag attcaanggg taagaaaatt gtccttcttc aagcaacttt ctttctgggt 360
 tgcctccttg ttacaaggac caattcaaga attaatgggt gtttcaattg anaacttggt 420
 aacçaaancc taatgtnaat tggaacct 448

<210> 3200

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-B7

<400> 3200

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 atggaaccaa taacgttttt cactacagct actgggatta ttgtgggtta tgcttatttc 180
 ttgatgactt ctagagatcc aacgtatcaa gatttcatga aaaggttggt tctttccagg 240
 cagaggaagt tgcttaagag tcataagttt gatgctgaga ggtttaaaga actggagaac 300
 aagtggaaga taacgtcttg ctcttcttct tcgtgccacg ctaatgcacg gattcggaat 360
 cgtgttggtg ttgatcttga tttggaggat tccttgacag gtcacacag agattgattg 420
 gntcta 426

<210> 3201

<211> 433

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-C1

<400> 3201
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acatcgctcg cgacaacact taggagtaat tggatccaag canaaatgtc gataaacatg 180
aaaacattta ctcaagctct agctagaacg gctgctgtga ttgagaagac ggttcatacc 240
acagtacagg aagttacggg accaaangct cttcaggatt acgagctact tgatcagatn 300
ggttccgctg gtcttggtcn agcttggaag ctatacgag ctaangcgcg ttgattccac 360
gaaggcacag caataaccga aggtctgtgt aatggatgcc tgataagcgt gctttgtcgg 420
aaggcnctg taa 433

<210> 3202
<211> 414
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C10

<400> 3202
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ccgttcaacg gattgtcatt gagctttttg ctgatgttgt cccaagaca gcggaaaact 180
tccgtgccct ctgcacaggt gaggcgggcg ttggaaagtc cactgggaag cctctacatt 240
tcaaaggatc atctttccat cgggttatca aaggattcat ggctcagggt ggtgattttt 300
ccaatgggaa tggcactggt ggggagagca tctatggtgg gaagtttcag atgagaactt 360
tagattggac catgatggaa ctggantcct tcaatggcaa attgtgggcc aaaa 414

<210> 3203
<211> 447
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C3

<400> 3203

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 gagataacga agtcggcagg attctctcat gcttcaagct gaatccgttt gagcatctta 180
 acctctcttt cgattcttcc acggatgatg ttaaaaggna gtacagaaag atttctttga 240
 tggttcatcc tgataaatgc aaacatccac aagcacaaga ggnnttcngg gcaatgggaa 300
 aagcccnaca actggtggca aacgaacnag naagngaata aaatccttaa ccaaattcaa 360
 ggctggcaaa ggaaganctt taganngaga ggnaaggaac nnnttaagga aagaaaacgg 420
 cttnaaaaat aaaatccctt ggtggna 447

<210> 3204
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-008-Q1-E1-C5
 <400> 3204

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 aaagcaggcc tcagaggatg ctaagaaact tgtcgacnag gaaagagcgt ttgcacgtgc 120
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 agctangcgg attaaattgc tgcacaaacc aagcagggta atggatatgg aatatgagct 300
 tcgagcacta agaaatcanc ttgcagagaa atcaaancat tttcttcaac taaaaannaa 360
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 <211> 418
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 <213> Arabidopsis thaliana
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 <400> 3205

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 cacgcagtna agattaccgg agtccgatat aaattcgggtt aatctgntga gggagacaga 180
 ttctctctcc agcgatgcta ttgctantga agatcccttt ancactgatt tggcctcaca 240
 aagttttact agtgcncaga cagagagatt gaacgcnagg caagcgagcc atgaggacaa 300
 caatctatct gtttttggtg cttctcctcc atcctctggt gcttcaataa tgnccgangaa 360
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<210> 3206
 <211> 448
 <212> DNA
 <213> Arabidopsis thaliana
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 actctcncce agacgccacc gcaccgtcac cgtgattggt ccaaactccg acgtcactga 180
 gactatgata ggcaactatg cagggaaagc atgcgcctat angtcgccgt tgcaagggat 240
 ttcaagatac gcnaggacac ttcaccaanc tggctgtgcc ggcgtggctt gcaaagggaa 300
 ccaaggattt ggtgcancgg atgcagcggc gcgtgaagcc gacgcgacng ttcttgtgat 360
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<210> 3207
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
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 <223> Clone ID: LIB22-006-Q1-E1-E1
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 ttctctcttt aacctttgtg tttgtcaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnaaagttt cgattaagaa gatagtgggt taggtttacg gttttgtaat 300
 tgatttatta tctgtaatgg gttgtgaggt ttcaaagtta tctgcacttt gttgtgtttc 360
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 tcaa 424

<210> 3210
 <211> 431
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3210

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 tctcccatcc tcgtttccag ggcgttgaga ccggttctct aggagatttc aaattggatt 180
 gggattcacc ggaaagccaa gatattgttc tgaagagaca gtttgattca ggcgagaagg 240
 ttgtggtctc tgctttattg caaccagaac ctatagaact agaagatgat ttagtgtttc 300
 ctagggaagc tcatgccaaa gtttgtatca aaaagcctgg tctcagctct atcttgagc 360
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 tactttatcc c 431

<210> 3211
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 ttctgagcga ttcggtgaag cgtgaatctg gaagtaaggt tcatcatggt aatatccaag 180
 cttccaaggc tgttgctgat atcattcgta caacattggg tctctgttct atgttgaaga 240
 tgcttcttga tgctggtgga gggattgttg ttactaatga tgggaatgct attcttcgtg 300
 agctagatgt cgctcactct gcagctaagt caatgattga gttgagccgt acgcaagatg 360
 aagaanttgg tgatgggaca acgtctgtta ttgttccaac tgggtgaaat gctcacgttg 420
 cagaancttt cntgagaaga attaca 446

<210> 3212
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3212

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 gtactccca ccgccggctg ctgcgactcc ttgaagacgt tgaccaacac tggcatgggc 180
 tgtgcttgcc tcactctcac tgctaacgtc ccgctgccta ctggcttcat caatcggact 240
 ctggcgcttg ctctacctcg agcctgcaaa atgggcgggtg tacctattca atgtcaagct 300
 gcgggggactc ctctaccaac tccaagtcag gttccatttt tgattgtctc accacctcaa 360
 gtgtctgctt tagcccgga acctcaangg cggcngggac aacaccaaca caggcactgc 420
 ancggatact cccgcggatg g 441

<210> 3213
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-006-Q1-E1-E6
 <400> 3213

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aggctgctcc tactcccatc gataccaagg cctctaccaa acgccgaacc ggctccatcc 120
 cctgcgga gcgtagcgat ttgggtact ccaaagactt ccacgatcac tacaccatcg 180
 gcaagttgct cggccatggc caattcggct acacctacgt cgccatccac agaccaaatg 240
 gagatcgct cgccgtcaaa agactcgata agtctaagat ggttcttctt attgctgttg 300
 aggatgtcaa gcgtagaggt cagattctta ttgctctctc tggccacgag aatgttggtc 360
 agtttcacaa tgcctttgan gatgacgatt acgtctatat tggtatggag ttgtgcgaag 420
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<210> 3214
 <211> 401
 <212> DNA
 <213> Arabidopsis thaliana
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 <223> Clone ID: LIB22-006-Q1-E1-E7
 <400> 3214

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 tttcttcaac ccgaatccgc ctgctctatc ttcgtcttct tggtggctct gcaattcgca 180
 ngccaagcaa atcatanaac tgagaatcag ggaaggctcg aatcaggggc ttcttcgtgt 240
 acatgctctg tttacaacg aggaggcatc angtgaaagt gaagatanga atgggtttgg 300
 ttgctaccg gcggatattt tctctttgcc tcaggagaag tttggaagta atgtaagtgg 360
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<210> 3215
 <211> 442
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3215

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aagaagctct ttttttgctt acattgaagt taaaaaatca tcacttggtt tgtttttgaa 180
gaaacacaca taaagtttgt ctttttactt ctcaaatttg gttgttttca ctcaatttca 240
atcttgcttt ctgattcaga ttctgggttt tcttcagaat tcccagagaa gttgttgga 300
ttgaattttt cacttttttg ttcataaaaag ttctagtcnt tttagatgaa catggacaag 360
gaaacagagc aaaccctaaa ttacttacct ttgggtcaga gcgatccttt ggcaatggca 420
atgaangaac aattggagat tc 442

<210> 3216
<211> 428
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E9
<400> 3216

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ttgatacagg aagaactggt gtttgtacaa ttcaccaacc tagcatcgac attttcgaat 180
ccttcgatga gttgctgttg atgaaacgag gaggacaagt tatatatgct ggaacactag 240
gacatcactc acaaaaactc gttgaatact ttgaggctat tgaaggggtt ccaaagatca 300
aggacggata caatcctgcg acgtggatgc ttgacgtcac tactccttca atggagtcac 360
aatgaacgt ggactttgct caaatattcg ttaactcctc tgттаатccg agaaatcagg 420
aactcatc 428

<210> 3217
<211> 455
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F3
<400> 3217

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taccgtgttc nggtgttttt gatgatttat gtgaacaaga ntcaagcaga gacancctac 120

gattatgaag tacgttttgg tgacaggagg agtgggtgagt ggtcctggca aacgtgtcac 180
 ngctagtagc attggacttc tccttcaagc atgtgggtcct cgtgtcactt ccattncaat 240
 tgatccttat cttaacactg atgcnggnac aatgtctccg tttgagcatg gntaagtatt 300
 tgtcntggat gaangtggag aagtggattt gnnctngga aactaatgaa cgatttttta 360
 gacagtacat ttgacccgtn acancaanat aactaccggg aaagatatac cagtcaagtt 420
 attgacaaaag gatnggaagg gggactactc ggaac 455

<210> 3218
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-006-Q1-E1-F7

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 cttctcatct ttctttctcg ttttctattt tctttcttct ttattctttg attcttttga 180
 aatgaatcat ctttacaaaa acccatttcg catttatgaa attagtttcc atttctgcgc 240
 gagtctactc ttgtgtttct tactcttctc tgctcaagct gttgcagggtg gtggagggtg 300
 tggctactct tgggatggaa tcgtgggtgac tcaggcgaac tatcangcac tccaatgcta 360
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 ntctcaagtt tgctcaggct gggctggaat 450

<210> 3219
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-006-Q1-E1-F8

<400> 3219
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ctcccactgg agaagtgctt ttgcgagagc agatgtgggt gtctttccac agttttaccct 180
gccgatgttg catagcggtc ttgatgatgg gaacttcggt gtgattccag aatctgtagt 240
tgatgtttgg gctgcggaaa gctacagtga aaccataca aaacaaaatc taagggaat 300
taacgaattht ggtgaggatg acgtgatcat cttggtgctt gggagctcct tcttttatga 360
tgagtttcnt gggataatgc cgtggcaatg cacatgttgg ggaccacttt taacacgata 420
tgggangaga aaagattcaa g 441

<210> 3220
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D7

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ggggaccacn agatgcttcc gacacttcen ccaccagcgt cgcggcgggc aatctcctcc 120
caaacgtccc cttegttccc ttctcagat ccgaaaaact cggacgcgtt gctgattgga 180
ctcgagctct ctcaaateca tcagctcgtc ctacaccgg atccaaatca gatccatcag 240
cgatcttcca tttctcagct tttgcagtag atgaaggatt tggctctaca aactcangtg 300
gaaacgcnga ctaagacgcc gctttccgat tantcgacgg aaaaacaccg gccgcgtcct 360
aaattccgga ctaaattggga naatcaatca atgnncataa ccgaanatca gcttcctcaa 420
cgtntttaat gaa 433

<210> 3221
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C1

<400> 3221
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acaaaaacaa cacgtagtht gcgttcctta tccgggtcaa ggccacatca acccaatgat 120

gaaagtggct aaactccttt acgccaaagg cttccatatt accttcgtca acaccgtcta 180
 caaccacaac cgtctcctcc ggtcccgtgg gcctaacgcc gttgacgggc ttccttcttt 240
 ccggtttgag tccatccctg acggtctacc cgagactgac gtggacgtca ctcaggacat 300
 ccctactctt tgcgagtcca caatgaagca ctgtctcgct ccattcaagg agcntctccg 360
 gcaaattaaa cgcaagggga tgatgttctt ccctggngan ctgtaaccgt atccgacngg 420
 ttgtaagaac ctcacacttg atgccgccgg aggaa 455

<210> 3222
 <211> 482
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 aatggcatcg gaatcgaaaa gctacgctag gagagatcgt cttcttgaga ttgaggccac 180
 tgttcgaaag tgggtgggaag acgaggatgt attcagagcc gaatcttggt agaactcttc 240
 aaaaccagga gaaaagtttt tctcaacctt ccctttcccg tatatgaatg gttatctaca 300
 cattgggcat gccttttcat tgtccaaggt tgattttgct tctgcttacc ataggctaag 360
 angagctaat gtgcttctcc aatttgggtt tcaattgtac tggtatgcc attaaggggt 420
 tctgcggata accttcgtcg tgagattgaa cagtttgggt aacctcctgt gttactgctg 480
 aa 482

<210> 3223
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-006-Q1-E1-C11

<400> 3223
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gatttcccag gtcattgctct cagagaaatt ctctgtcttt gattcaatgc gatataaaaag 180
agagatcttt cggagagtct atgacgatca cgaatcgtgg attgagtttt aagacgaatg 240
tgtttgagca agctcgttct gtgactggag actgttctta tgatgaaact tcagctaaag 300
cacgttctca tgttgttgca gaagataaga ttggtgtctg ctttgaatta aggtggcctg 360
aaacccttaa cgatgttcaa ccttcctggt aaaacctctt tgctgatccg gatataaaa 419

<210> 3224
<211> 473
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C12

<400> 3224
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ctgtggaaga agagaatatt aagatcacta tggaggattt tctccacgct atctatgaag 180
ttcaacctgc atttgagacc tccacagatg acctagagcg ctgcagactc aatgggatgg 240
tagattgtgg tcatcggcat aatcacattt acaaaagagc tatgcttcta gtcgagcaag 300
ttaaagttag tactagaagt cctctagtca cttgccttct ggagggggccc agtggaagtg 360
ggaaaactgc ttagcagca acaattgggt atccgatagt gacttcccaa tatgttaaag 420
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<210> 3225
<211> 453
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C4

<400> 3225
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tcttgcttct ggtaacttcc attcgttttc tcgagaaaag aanaggtttc caagagtagc 180

aactgtcact ggtgtcttat ctgagctaga tgatgataac aacagcaaca gtgtctgctc 240
 tgatgtcctt tcttccgtca cacaagatcg aatcatcatc gttggaaacc agcttcctat 300
 taaatcacat cggaactctg ctggtaaatt gagtttttagt tgggacaatg actcgcttcn 360
 cttgcagctt aaaagatggg atgctgaag atatgggaag tttgtctaca ttgggttgcc 420
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<210> 3226
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-006-Q1-E1-C7
 <400> 3226

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 gatgccttcg tcaacganca aaactccaag tactgtggan ccagccgcta cggcanatct 180
 tctttcttcg acanggtcat gctcnaaaac gcttccgact acnatgttgt aaacttcctc 240
 tacgccacan ctggtgtttc tctccccgaa ggtttgcttc tccaatcaca atcancnaga 300
 ttcttgggac cgtgagtcta actggtttgg ctacattgct gtcncgtctg aatgaanngt 360
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<210> 3227
 <211> 443
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-006-Q1-E1-C8
 <400> 3227

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 gtcacgactt ttgtttcccg ttgtttgtct gcagacatag aatcggacaa gcaagcactg 180

cttgagtttg catctcntgt tcttcacagt cgcaaactca actggaactc cactattcca 240
atctgtgcct cttggactgg taccacctgc nccaagaaca acgcccgtgt aaccgcactc 300
cgtttgctg gatctggact ttatggacct ttaccanaga aacatttga gaagcttgat 360
gccctcanga tcattagcct tagatccaac cacttcaagg gaacattcca tctgtcatcc 420
ttcacttcc ttaanccgat gac 443

<210> 3228
<211> 451
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D1
<400> 3228

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gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt atctgattgc 180
tctaataaat atgagaagct cggtgttcgg atgaacatgc ccagggtcgt aattgacaat 240
ggagtttgcc ctaattcaac tgtcgtcaag attgatagt caagaagccc aggaatattg 300
cttgaatctg tacaatttct cactgatatg aatctccgga tnaaaaaaagc ttacatttcc 360
tctgatggaa aatggaatat gggatgtttt tcatgtgagc gatctaacgg agacaaatta 420
accgacgaga acctaattcc gttacattga a 451

<210> 3229
<211> 481
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D10
<400> 3229

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aggtcagcat ctaagtttgc ttccgtttat ggtggccgag tccgatctat ctccgcgctt 180

gcgaaccgcg cctctctagc tcgcaaccca ttttcaattc gtccattcgt ctctcgcgcc 240
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 gactccgaaa tcaactctgc ttgcaatcc gataatatcg attcggatga agagatgact 360
 ccaggaagct ttctttttag aattgaagac aaacctggaa atcagaatgt tacattgact 420
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<210> 3230
 <211> 418
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-006-Q1-E1-D11
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 tggatgagga ngggctgatg gagtatgtgg aaaacaacat gtggaatcca gagtaccoga 360
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<210> 3231
 <211> 438
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-006-Q1-E1-D12
 <400> 3231

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tctttgtcct cttttgccag ccactagcta caattctggg tagattgtac tatnaaaatg 240
gaggaaatag cacatatgtg gtaacacttc ttcaactcat tggcttcct gtacnggttc 300
tgttccgctt cttttctcga atcangcacc ccagatcaac agatacaant ttcaagtcag 360
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 aggaaccggt tggccaagac cagagacttt agctctattg agaatacgtt cagagatgga 180
 taaagctttt cgtgactcta ctctcaaagc tcccttatgg gaagaaattt ccaggaaaat 240
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 caagtaccac aaacgtacca aagaagtcgt accgggaaat ccgaanggca aaacttaccg 360
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 <211> 441
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 aaaactacca attccacggg atggctgatg aggtgttctc cttggtctct acccctgagt 180

tgcagatgaa ctctttgttc aaattcatcg cctctggtaa ctgcgagtac aacaacaccg 240
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gtctccact tcaggatgtc tacaagattg gtggtattgg aacggtgcc ntgggacgtg 180

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 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
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 aaattgaaac aaacaaaacc aaaagacggt accctttttc cattgattcc tcaattctct 180
 aaacaaatga gttaattctc catggctgcc atgttgatgc agccatggcc accgtttctt 240
 cctcatctaa ccctagtttt cttaacccta atctctttt tccctaata atctcttttct 300
 caatccgatt ctctcgaaa catcgaaaca tttttcccaa atgacacaat caccctcca 360
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<210> 3241
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 <212> DNA
 <213> Arabidopsis thaliana

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<400> 3241

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 gaggaaccga agaacgataa agaattgagt ctctgagctt tgaatcaaaa tggatgacca 180

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 cagtgcagtg acttcaacat gttctcaact tctcttatca catttgattc gtcacgaact 240
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 <213> Arabidopsis thaliana

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 tgtgtttgag aagcgggatt ggtgatcgga gctggaattt gggtggtaat cggaggtcag 180

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<210> 3244
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 <212> DNA
 <213> Arabidopsis thaliana
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 <212> DNA
 <213> Arabidopsis thaliana
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 <212> DNA
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<223> Clone ID: LIB22-006-Q1-E1-B11

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g 421

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 <223> unsure at all n locations
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1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

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<210>      3258
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ttcaaggaag agagatcanc aagttganga tatttttaaac agangtgtct ctgganaata 240

tancannagt tcaagttcga aatggtttagc tacntcgctc tctaggtctg gctccgatgt 300

taaacggaag aatggagaat gcccgctcgt tatgganctc tgtgtccgca agatacanga 360

ggacattgat agatatacca agttctctga cctacctaga gatacagtca gcagattttg 420

anga 424

<210> 3261

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-004-Q1-E1-G3

<400> 3261

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ataagttgac atatatacta tatacaagta tattaattat acatatatgg ctgaccctaa 120

caatcctatc actgaaccta aagctataat ccaatcttct acttcacgtc cagttactat 180

tgtgccagtt cccacgtgcg gtgacagcct ctctgactct gccacgtgtg aaaacccttg 240

tccacttgan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnntaat ggccactgac accgacatct ctgcccggaa 360

aaagaatccg gtttatcggg gaattcgttg tcngagtgga aaatgggtgt ctgaaatccg 420

aga

423

<210> 3262
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-G8

<400> 3262

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tgttggtacg tcaccgattg tgcttgagtt gatgaggagg caaaatgttg aagatgtttg 120
taaagactct gtggatttgg atactaatgt tagtggaagc agggtgacta aacatagaag 180
gagaggggagt tggttaaaga gtattaagaa tgttgctagt agtgtgactg ggtataaaga 240
gcgacggagc accgatgata gggattcacc gtctgagaga ggtggtcaga ggtttagctc 300
tgcaactgat gatagtcgag atatgtcttt tcatgaccct gagagagtta aggttaggca 360
gtatgggaag tcgtgtaaag agcttactgc acttttcaag aatcaagaaa atcaagccca 420
taaa 424

<210> 3263
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-H1

<400> 3263

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ctcgtctctc cagcctccga aactccaaaa ggtctccatt atctctcaaa tctcgatcaa 120
aacatcgcca tcattgtcaa aacattctac tacttcaaat caaactcaag atccaacgaa 180
gaatcctatg aagtcacaa gaagtcactc tccgagggtc tcgttcaact ctatcctgcc 240
gcagggagac tcacgatcag tctgaagga aagatcgctg tggattgcac cggagaagga 300
gttgtagtgg tggaagctga ggccaattgt gggatagaga agataaagaa ggctatatcg 360
gagattgatc aaccagagac tcttgaaaag ttggnntacg aagttcccggt tgctcggaat 420

aatct

425

<210> 3264
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D7

<400> 3264

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nnnnnnnacg caccaactgt tgcgggtcaa agagatctcg atcgggatcc acaagacgga 120
gatagataga gagagagtga gagctaacgg aaatgggatc tcagctactt gagtgttgct 180
tccgtttcgt cttctactgt cactcccaca gctccaactg ttttccttga ttgtttttct 240
tttatctcgg cgttttactc ggaagcttac aacacactct ctcagggatt tgaaatcctc 300
acgtttcagc acattctttg tgggtcccat ctattctcta gccagttcgg agttgcctga 360
agaaatcaaa tgggttcgag atacgcctc caccagctca acaatgggct tttgt 415

<210> 3265
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B7

<400> 3265

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nnnnnnnnna acaccaattc aagaaagaag gaagcttaag aagagtctat catcaatcaa 120
tggagtttca tcttgaacat cctctctcac attcttctact ccacaataac ttcaacgacg 180
acacagacta tgaaacttta ccacactctc tcttctcgt cgagtttcaa cacatgcctt 240
cttctcatta cttccatagc ctcaagtcct ctgcttttct tctctctaata cgaaaccaag 300
ccatttcttc aatcactcag tattcaagaa aattcgacga cccatctctg acgtatcttg 360
ctgtgaatta tctagacagg ttcttgtcta gcgaagatat gccgcaagtc aaagncttgg 420

<210> 3266

<211> 422
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-B8

 <400> 3266

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 aaggaacaag tatctagaga tggtattatc agttgcagac aagtttaaga aagaccctta 180
 cggctttgtg tgggtggctg ctgggaagca acctgatttg gagaagcgtg ttggtgttgg 240
 aggatatggt tatccagcaa tggtagcctt aaacgcaaag aaaggagctt atgctccact 300
 taaaagcggg tttgagggtta aacacctcaa agatttcgtt aaggaagctg ccaaaggang 360
 aaaaaggaaa ttgcctatag accgaactaa gggagatagt gaagacagaa gcttgggatg 420
 gt 422

<210> 3267
 <211> 413
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-004-Q1-E1-B9

 <400> 3267

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 tgaatttgcg aagtatggga gacgctagag acaacgaagc ctacgaggag gagctcttgg 120
 actatgaaga agaagacgag aaggtcccag attctggaaa caaagttaac ggtgaagccg 180
 tgaaaaaagg gtacgtggga atacacagtt ctggattcag agacttcctt ttaaaaccgg 240
 agcttctcag agctattgtt gactctggat ttgaacatcc atctgaagtg caacatgaat 300
 gtatccctca agctatcttg ggcattgatg tcatctgcca agcaaagtct ggtatgggga 360
 agactgctgt gtttgcctg tctactctac aacagattga accatctcct ggg 413

<210> 3268
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-C11

<400> 3268

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gttttcacag gaacgtcgat gaaatctcgg tatcttgtgc acgtacacat gtcggactca 120
ggttttaccg tgaagtagaa aacataaagg ggcgttgttt ttgttgccgt caaggtctga 180
cttttagtaa aatcacatta agaagagacg tcggagggaa aaacctccag ctacagaacg 240
gtgtaatcgt gtaagtggga atacattgcc atgagaacgt ctttctcttc agacgctgta 300
tataaagcgc atgttgctgt gtttatgtcg atttttttca agtaaaatta taagtcaaag 360
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<210> 3269
 <211> 408
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-C2

<400> 3269

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ttttttttac caaattaaca atttttgagt ctccgttgcc tctctcagtt gaagcgtctt 120
ccttctctct atcgaatgat ggaggccaaa ccaaaaagga ggattgttac agagaatgga 180
gatacaggtg aagatttagt tcttgcaaca ttgattggaa acggtgatga tgtaggtcct 240
ctcgtaggc atgctttcga aatggggagg cctgagcctc tcgttcatca gctcaaaaat 300
gtggcgagga agaaggaagc tgaaattgag gatctatgca agactcacta tgaagaattt 360
attgttgtag ttgatgagct tcgtggtgtg ttagttgacg ctgaanag 408
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<210> 3270
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-C3

<400> 3270

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 aggtcgggtga tgatgttctt ctttacgcta acaaagtcgg accgtttcat aatcccagtg 180
 aaacatatcg atactttgat cttccgttct gttcatcage tcctgttaag gagaagaagg 240
 aggctctagg ggaagttctt aatggagatc gattagtcag tgcaccttac aaacttgagt 300
 ttttgggtga gaagaactct gaagttgcat gtagaaagag gttgagtaga gaagacgttg 360
 ctaagtttcg tgatgtgatt gcgaaagatt aatactttca gatgtattaa gatgacttgc 420
 caatt 425

<210> 3271
 <211> 414
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-C5
 <400> 3271

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 atgtgaagaa tgcaaagagt gcatatctcc aaagagcaac tgggtgcacaa aatatacaaa 120
 cgattattta tcaaacacaa gacgatatgg aatgacttca agattcaagg actctcgttg 180
 agaagatatt caccatttca tctttgtctc aagttttact gaatataccg ttgtagatat 240
 cgcacatctc gtcaaaatat ctctgaaat tcccgttgat atagcggcct tgctcagctg 300
 cagtgttgcc acaggacttg gagctgcgtg gaaagtggct gacgtanagg aaggttccac 360
 tgtcgttata tttggccttg gtgctgttgg actaacgggt gcanaaggag tcag 414

<210> 3272
 <211> 423
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-C6
 <400> 3272

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agctgcgaga accatcgacg cggntaatct cacttgctta cattcactcg atgtatcaac 120
 ggtcggagac ngtcgacgtt agagaacttt cgagagttta tggttacgca gtgaccatga 180
 gaatgttggt tggaangana catgtcacga tgagaaaaca tgttttcgga tgacgggaga 240
 ctngganaag ccnacaaaca tcattcttgag gtgattttca nactcgana ctgtttgcca 300
 tgttttagtc ncgtgganta cgtggacnca aggttaggtg gttggtatat tgatgggtgna 360
 gaggagagag cgatagtga tgttaatctt gttcgnagtt acaacaatcc cataattacg 420
 aag 423

<210> 3273
 <211> 408
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-C7
 <400> 3273

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 gggaacaagg ttactggga taccagaaat ggatgcatcg tatgtgaatc cattgggaat 120
 ggtccaagat gaagtcaacg gcacaggagt ttctgctttt tgtgttctga gaaatttcaa 180
 tttgtcatac atcaagctaa cgccagaagg atcattgagg attacacgga ataatggaac 240
 cgactggatc aagcactttg agggctcgtt aacctcgtgt gatctatatg gtagatgtgg 300
 accttttggc ttgtgtgtga gatccggtac tccaatgtgc caatgcttaa aagggttcga 360
 accaaaatca gatgaagagt ggagaagtgg gaattggagt cntggatg 408

<210> 3274
 <211> 412
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-C8
 <400> 3274

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gtcacaaatg gaaactctct gtgcacccaa atggncatac aaatgctaag gggacacatt 240
atgtctccct ctacttaatg aatcaagctc cggtatatga tacgcttaca tatgagcttc 300
ttgccgtcag tcaacttgag ccaaaatggc acactcacgg aagagatgaa tacgaaacca 360
atgaagaact gggtagtgag gggtttcgtg agttcatatc tcctgttgat cttaanaaaa 420
atgg 424

<210> 3277
<211> 423
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D3

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acaacaatca gcaatctttt tggcagttca gcgaccagct gagagttcag acaccgaatc 180
tagcgaatct gtctctcaac gactcgatct ggagcacaaa ctctgtcttc aaanagcgtc 240
gaaacttaga catagccgcc accaccgaca agaacaaca ccagatcgac tattatcaga 300
agaagacaac ttccgacaac atcaattcca actggaactg gaagtcttct ggttcaaaca 360
acgacatggg tttaggattc ggacctgtgg gttcaaaatc caacgtcgat ttaaanccaa 420
tcg 423

<210> 3278
<211> 421
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D6

<400> 3278
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cgtaggggtt tcacggcgga gattcaagtt ctttgacctt ggaagctttc actatcaccg 120
gagactatct caatggcaac catggctagg tcgtttctgc aggcgatatc gaaggatgag 180

gcggtggctc ctccgcttag agttgttcag atcgaaggac tggctgtact aaagataatc 240
 aaacactgca aggagttttc accgaccctt gtcactggac agcttcttgg acttgatggt 300
 ggtagcgctc tcgaagttac caattgtttt cctttcccg tccaggnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngaagttaat 420
 g 421

<210> 3279
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-B4
 <400> 3279

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 tatgctgga tggatgatggc acagtcccg tggaaatctgc catggcggat gggcttgaag 180
 cagtagcaag agttggagtc cctgggtgagc accgaggaat cctcaacgat caccgtgtct 240
 tccgaatgct caaaaaatgg ctaaatgtag gcgaaccaga cccgttctac aaccagtaa 300
 acgattatgt catccttccc accacatatg aatttgagaa attccatgag aatggactcg 360
 aggttgcttc cgtgaaagaa tcgtgggaca tcatatcaga tgacaacaat atccgcacaa 420
 ncggg 425

<210> 3280
 <211> 429
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-H10
 <400> 3280

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 gtcagttctt gacagagaac ctcttttcat tggcatatct gtcagctcca ctgaaaaggc 120
 ttatanaaca gttgatattg ggccagatgc tgaaaacaag atagagattc cggaagtttt 180

ggggtgagaa gtctgatcta aggagggttta aagatggaag aatatctgaa agcacagttt 240
 gggagactca gcagtggacc aaacatctta tcatgaaaca aattggtgaa tatatcctta 300
 agcggcatct ttcactgacg tccgatgaca ttgtacaatt agtgggatca acttgattct 360
 ctctaaaact atggggggcaa agaccanta tcnttatctg ggnaatttgg ttcaagccta 420
 agaaagttt 429

<210> 3281
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-H12
 <400> 3281

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 cggagttaca tgattcattt acngccttta ggggaccctg tattgcccga aatgctgttg 120
 aagatactag aaccttatcg gaaagaaggt tgcttgctgg acgatgaaag agcaaaactt 180
 tacgctgatg tggtaagaa aggttatgct gcaagatttg cttttgcagc ttctgttttt 240
 ggtgaaacct cagaagcact tttctgggtg caacttcctc aagccattcg ccatctgatg 300
 aacaagctaa cgagaaggtc tccgcagaaa atctcttccc ctactttaga ctcaggagct 360
 gatgaagtag ctatgccgag taaaatacca tctactggat taaccgtcac ctgaaaccaa 420
 gaaagataga ctcctaagtt gtgatnggtt ca 452

<210> 3282
 <211> 440
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-H2
 <400> 3282

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 ttgaggatga gatcctttcc acttccttct acctgctgac aatgggcaac tgcggtacta 180

tcgtcgttca tgtgatgtag atcctaggtt gtctcttgac gcaagtcgaa gtctcttttcg 300
 acgagcctag agcttcatgg ggatggatgt ttgattggaa agacatatcc aaagctgata 360
 cctttgtcct ctgtgactga agacgttaaa gcctcgccgg agaagataac cggtgagaag 420
 gtanaggaa 429

<210> 3285
 <211> 405
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-003-Q1-E1-H8
 <400> 3285

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 ggatatgctc ttgtacctat gattgcaagg ggtatcatgc ttggtgctga ccaacctggtt 180
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 gggatgtact ggantcaaag ttgccngtta aggggttggtg gggtttcccgga agggaaagaa 360
 aggtatggan aaggaaggga ttttnacgtc caanaatggt tccag 405

<210> 3286
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-004-Q1-E1-A1
 <400> 3286

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 caaagtttga ccgaccacct cttctccact tagcattcca agcacttgat aggttttcgt 120
 ctcaagcagg ccgatttccg tttgctgggt cagaagaaga tgctcagaaa ctagtggaaa 180
 ttgcagttga cattaatgag gggttgggtg atgcaagggt ggaagatgtc aactctaaac 240
 tgttgcggca tttggccttt ggatccaggg ctgttctgaa tcctatggct gcaatgtttg 300

gtggcattgt tgggcangag gttgtcaagg catgctctgg gaaattccat cctatctttc 360
agttctttta ctttgattcg gtggagtcac tccccaaggg acctcctgaa gcatcaaagt 420
ttaaacac 428

<210> 3287
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A10

<400> 3287

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ctccggcgaa gatgcaagag atccaccaat tctctcctc cgcactcacc cagcgtggcc 120
cttcgctct tccatacgcc gagaacacca agtcgcta at ccgtcaacac ctctcaacc 180
taatctcttc ctacacttcc ctcgaccca aaacggcaac gtttacacac aacgatggcc 240
gatccgtgat tctctccaa gccgacggt caatcccgat gcctttccaa ggcgtcagct 300
acaacatccc cgtcgtgatc tggctcctcg aatcttacc tcagtatcct ccttgcggtt 360
acgtgaatcc tacacgcgac atgatcatca aacgacctca ctctaagtgc tctcccttcn 420
gg 422

<210> 3288
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A11

<400> 3288

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agggttttcg gagatctctg tgattcctct gaatttgctg aatttttttg aggaggcggt 120
agaagtcggg cttcttaaaa atcagatctt ctgctcaggc tttaatcggc gacgtctggt 180
attgggatct gtgacacaaa aagctgcgtt ggagactatg gaagaagttc agcctccagt 240
gaccccgccc attgaaccaa atgggaaaag aagcgaagcc tctctcttgg acatatgcga 300

gaaagttctg tctcttgatg ggagcacttg cgatgaagct ttgaagttgt ttacaagaaa 360
ccaaacgaat tttgtcaagc aagcatgtct aacattggaa gtggnacgcc gggaa 415

<210> 3289
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A2

<400> 3289

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tccgataaac cggaatcatt cctcactcac cacgattggn acacatctca actcaattca 180
agaatcatct cttctctaca cttacacaac ctcttccaa ggnttctccg cttaactcga 240
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ttctctctac acacttnaca ctaaggcggt actcctggag ttttctcggg tctcaaattc 360
cgaaattcng gggtttaatc tncgggttct tccttctaaa ggggggtaat caatccggag 420
gnttta 426

<210> 3290
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A4

<400> 3290

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cgttaatctc ccagggtgtg ttgtggatct cccaactcta actgagaaag acaaagaaga 120
catcatgcaa tggggagtcc cgaatcaaat cgacatgatt gctctgtctt ttgtcaggaa 180
aggttcagac ttggttcaag tccggaaact tctaggaaag cagccaaaa acattcttct 240
catgtctaag gtcgagaacc aagaagggtg ggcaaatctt gatgacattt tgggtcaattc 300
agacgctttc atgattgcta gaggagatct gggcatggaa atcccgttg agaagatctt 360

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<210> 3291
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<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A6

<400> 3291

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tgacggtccc gtcttttcg tggatctgat tctggccccg gattctctcg ccgcgatctg 180
aggtcaaaca tggcggtgc taacgcgcc atcattatga aggaggtcct aacgcttcg 240
agcgttgga tcggtcaaca gttcatcacc tttacaaatg ttactatgga gtctgataag 300
tacatatgtg tacgagagac ggcaccgcag aacagtgttg taattatcga tatgaatatg 360
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<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3292

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tcggagtacg atagtcagcc acgcgtacgg ttcatgtgta cttttggagg aaggatcttg 180
ccacgtccgc cggataatca gctctgttac gtcggcgccg ataatcgcat ggctcgtgtt 240
catcgtcaca ctactttcgc ctctctcctt agtaaacttg ctaaactctc cggtaaaaagc 300
aacataagcg tgaagtacca gctaccaaac gaagatcttg acgcgttgat ttccgtatca 360
acggacgaag atgtagagaa catgatggac gaatacgacc gcgtcgaca agaatacaaaa 420

ccca

424

<210> 3293
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 <213> Arabidopsis thaliana
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 <400> 3293

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 gtcgagggtg atcaaatacta ccatttagca tgtcccgctt ctccaatttt ctacaaatac 180
 aaccccggtt agacgataaa aacaaatgtg attggcacac ttaacatggt aggactagct 240
 aagcgagttg gagcaagaat ttacttact tccacatctg aagtgtatgg tgatcctttg 300
 gttcaccctc aaaccgagag ctattgggga aatgtaaacc cgatcggtgt tagaagctgt 360
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<210> 3294
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3294

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 attccttccg accaacaagc ttacctnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
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 caaccacagc agcagcagta tgggtgggtg ggatctcaga atccaggatc agctgggtgag 300
 atccgggtccc tgtggatcgg tgacttgacg ccatggatgg atgagaacta tctcatgaac 360
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 gtantc 426

<210> 3295
 <211> 430
 <212> DNA
 <213> Arabidopsis thaliana
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 tgctactaac ggtgacggag ggttttagttt ccctaaagga ccggtgatgc cgaagataac 180
 gaccggagca gcaaagagag gtagcggagt ctgccacgac gatagtggtc cgacggtgaa 240
 tgccacaacc atcgatgagc ttcattcggt acagaagaaa cgttctgctc ctaccacacc 300
 gatnaaccaa aacgcgcgcg ctgcttttgc cgccgtctcc gaggangaac gtcagaagan 360
 tcaacttcaa tcaacaantg catcctaacc atcggttaacg anagaatcag gacaaagggtg 420
 gtaaaaggaa 430

<210> 3296
 <211> 495
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-D3
 <400> 3296

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
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 gagtggttct ggacttggga ccagagggca ttaaaagatg tggtgaagaa ggggggatcg 360
 ttttatgatg tcaccaatgt atcatccagc tatgaagatc gttggtcctg ttcggaaaaa 420
 gcttaaaatt aaaactgttt ttaacataat gggacctaag cctaatactg ccaagagttc 480

ctaagccgtc gttgg

495

<210> 3297
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3297

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 ctgatttgca aaagaagcct aattatcttg tggatgttgc tgctgggact gtgcgagtgt 180
 cgactacatt gccaatcgaa agcaggggtcg atgacagacc gcctcagaag gttatgcaga 240
 cggtgtggt tggaacaaac gggtccttaa cttacagaat gaacctagat ggcttccctg 300
 ggttttggtt gggcattcac atactttgct gaaatcnaag gatttggctg aaggatgaat 360
 caagggaaat ttaaattaat tctanctgaa cancctgagt atancaaadc cggtttgtta 420
 acatcaangg aaaatacaca gagaccgtta cncggttt 458

<210> 3298
 <211> 490
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3298

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 ggagaagctt agcttatgga tttggagttt ctctgtgaat gaatctctgt ttgttatggg 180
 gaagaatacc gtcgaggagc agaatctccc tgtgagcgac ggagctgctt cggctaggaa 240
 taacggaggt ggaggaataa gcacatgttg ttgctgtgat tggatctcta gctactttag 300
 tctcagatgc gttttganc ttgctttttc tgctgctgtg tntctctccg ccttggtntg 360
 gttacctcca ttctctggat ttgcangatn caagggatct anatctcgat ccaaggttta 420

6547630 "the end of the world"

aagatnacag aatantggcg anttttggang ttggaaaacc aatttcgttc aagggaaaac 480
aanttttaggc 490

<210> 3299
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3299

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ttttttgttt aatggttgta aagatatcga aaaagttttt tgatgttaaa gataaagaaa 180
aaattgattt accacctggt ttcagatttc acccaactga tgaagaactt ataacacact 240
atctaagacc aaaggttgta aactcttttt tctctgctat agctattggt gaagttgatc 300
tcaacaaaagt cgagccttgg gacttgctt ggaaggctaa gcttggggaa aaagagtgggt 360
acttcttttg cgtaagagac cgaaaatacc cgactggttt aagaacgaat cgtgctacta 420
aagccgggta atgggaaagc tacang 446

<210> 3300
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D8

<400> 3300

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gaattctcgc atccacagct tcaggtagtt caaatcccaa agatgggtgct gacgtggatg 180
tccgagagga atatgcaaac gcctttcgta cggaatcata caatcacttt tggacacgtg 240
tcgtacagct aagccgcaaa aagtcgcgag tgtcttcttc ttcttcttct ccaccaatcg 300
aatcatcttc caggtcagct cgtctcatgt cttatccgcc tattecgcgca caatcttcta 360

nacccgggnt ctgantanca ttactcgggt actaagatgt aaccccggt cngggcgaca 420
caccgaaac tcntctctct gattacttt 449

<210> 3301
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E1

<400> 3301

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ggatatataa tctcactgat ttgtttcttt tttgttctt gtttcgttt ctatatgttt 120
atggatgagt tgtagtttcc atctcccagc cggatataga aagaagaaac agaggaaaatt 180
tgttcataaa ggaggtacat atatacacat acaagtctct gtgaaatatg acatctcagc 240
taaaacgaac tttaaccaag agatacgggtg ttcttgaact gtgggagatc atagtgattg 300
ctctctttgc aagccttcat agtaatcctt gtcctttcaa gtttggctca acttcccgt 360
aaaagtccaa aagatctaata gctacaacgc ttctgtgaac tcaaagccct cgcnttaacc 420
gaagaaataa aagaaataaa gtgttgatc 449

<210> 3302
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E10

<400> 3302

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attcttcaga ctctgtctcat ggaggtttac cctgaagaga taaccgtagt cttcttctac 180
aatttatttg caacactaat ctcaagtacca gtatgtcttt ttgcggagag caacttgact 240
tcttgggtgc ttaaaccaga catttcctc gctgcaatca tatactcggg agtcttcgtt 300
tcattattca gcgcgcttac ccacacatgg ggtctgcac tgaagggtcc ggtatacata 360

tccttggtca aggcattgtc tantgccatt gcagtcncca atgggtgcna aaatcctcgg 420
ggatgc 426

<210> 3303
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E12

<400> 3303

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agaatcttta ttgtttaaag cttccaaatt cgagaagaga atttgaaacg accaagttca 180
gganatncgt ttcttcgtct acttttgtct ctctctcttc tctttcgaaa agggtttatt 240
ctgtcttaaa agaaaccttt ttgagagggt aaaaaagct tcaattttca gagaaacaca 300
aaaggcaaga aacagagaaa aacaaatcat ctaattcatg aaacanggtt caatgaatan 360
atcgtgtctc tgtantgtcn taancaccac tgctctgatt tgtgggtgctt acntcatttg 420
ca 422

<210> 3304
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E5

<400> 3304

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gaactattga caatatcatc caatgcaagt tgtacaggcc tggatctggt ggctttgtct 180
caaaatctgg tggcatgtct aatgaaatgt acaataccat tgcccgtgtg acagatggga 240
tctatgaagg cattgctatt ggtgggggatg tgttcccggt ctcaacttta tctgaccata 300
tcttgcggtt taacaacatc ccacaagatt aagatgggtg ttgtacttgg gagaacttgg 360

ctccgaacat tggaaagctt aaacatttga cgggtttgtt cttgcactac aatgctcttg 360
 ttggagatat tcttagagaa cttggtaact tgtcggaaact tacggatctt tatctcaatg 420
 ttaataatcc tctccggtga gattc 445

<210> 3307
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-E8
 <400> 3307

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 ggggcatgca tttgggggaa gcattgtaca ctgtggaggc aaggcctgcc gttgcaggca 120
 agcacgaagc aatgtgggga tgtcgcattg gatctactga cggctgacaa gagggaggtg 180
 gcggaggagg ggtggtgttg ctatgatgtg ggcgggcggt gctgttactg ggcgcatctg 240
 ccctgtactt gctacggtgc tgcgagccat gtactgctgg agatccaaag agttgtgcgg 300
 ctgctgcctt gccancagtc tgctgacgtt ttctgttgtc atgcacactg gggaaggcat 360
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<210> 3308
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-002-Q1-E1-E9
 <400> 3308

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 ttgggtttgg gttccgtccg aacgacgagg agctcgttgg tcaactatctc cgtaacaaaa 180
 tcgaaggaaa cactagccgc gacgttgaag tagccatcag cgaggatcaac atctgtagct 240
 acgaccttg gaacttgccg ttccagtcaa agtacaaatc gagagatgct atgtggtact 300
 tcttctctcg tagagaaaac aacaaaggga atcgacagag caggacaacg gtttctggta 360

aatggaagct taccggagaa tctgttgagg tcaaggacca gtggggattt tgtatggagg 420
gctttcgt 428

<210> 3309
<211> 268
<212> DNA
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<223> Clone ID: LIB22-002-Q1-E1-F12
<400> 3309

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tttggaatgt tataaaaagg acctcttcgg cttttttgta ttaatcaaca gctacgtaca 180
aataagccga agaggctcctt ttatatacgt gctgttgatt aatacaaaaa gagaactcct 240
ctcgcaaaaa aaaaaaaaaa aaagggcg 268

<210> 3310
<211> 451
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D1
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ggcaagatca gatgaaaaca tgccgtctta gtctatatgg cggggcagtt gctcagggtt 300
agttgtctcc ctggtttggg ttgtcgtctc cctcggttgg gcttaagctt ctcttcctcg 360
actatattac ttccgntaat ttgggggttg agccttttgg gtaagtcctg ggtctatcct 420
canttantaa taaaccgatg ttttggtta a 451

<210> 3311
<211> 507

<210> 3313
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 ggtgggtcaac anactacttc caaatctcan gtggcaatat ttgttgcat agcgatggta 360
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 attac 425

<210> 3314
 <211> 402
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-B11

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 aaacagaatc tctgctttta acaaggtaat aggagaatag gggttagtag aagaaagggt 300
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<210> 3315
 <211> 447

<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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<400> 3315

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 gtcacttaca agctcctttc tagcttcttt gaggtttgaa nttgggctac aagcgtcaca 420
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<210> 3316
 <211> 450
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-B3

<400> 3316

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 gggcttgatt cttgaaaca gttcttggtta tacatagcca aaggtagtga gattaagaaa 180
 gatacccgag taaaaaagag cattctctgt gcggctggca agatggaaat tcgatcagat 240
 ctgatggatt ctcatatata tgccttcaag agagcagttc tgcaggaagt tttggatcaa 300
 aaacctgctt ttaggagcct aaaacaggat gtactaccgt atcttggtcg tacacagctg 360
 agatnagatg tcctctctga ccaaagtaat gtnnaagaaa atgggaatgg gaatgggaaa 420
 aataatatgc agaacaacga aggtgggcct 450

<210> 3317
 <211> 453

<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-B4

<400> 3317

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accacccgcc gtcgcgcgcg caaacaacat ccatctctat caagcagctc ctccgcagca   180
gccacaaaca tctccaagtt cctcctcctc catctatttc ccaccctcct tactctgaca   240
tgatttgca ggcgattgca gcggttaaag aaccaagatg ggtcaagcaa gcaagctatt   300
tcgaggtaca tagagagaat ttacactggg attcctactg ctcatgggag ctttggtgac   360
acaccatctc aagactttga agaccagtgg gattcttgct atgggtaaga aatcttacia   420
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<210> 3318
 <211> 449
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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<400> 3318

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tacaaaaaat aagggtttct ttatcttttc gtttcttcca aattttgtaa tggatttgat   180
gcaaattgat aagcgttttg attcaacgga gcaagtgggt gaagaaatca tgagaattca   240
cagatctcta cccgcaagac caggaattga cgaagttgaa gctgccaagg gtttgattga   300
caacgttgag aaagaagatc aagcttggtt agaagccatt gctagacaga ggaaaagctc   360
tgaagttcct ggtgagcttt tcatggtggt gcaagaaatg aagaagggtt aaggttcagt   420
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<210> 3319
 <211> 495

<211> 348
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-002-Q1-E1-B9

 <400> 3321

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 tcacattgag gttcttagtc tacggaagcg caggaatcaa ttggatccaa tcgccaaacg 180
 ctattccgcg tgattggact gccggagcca cctacgactc caacattcta cttacttaat 240
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<210> 3322
 <211> 423
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-C12

 <400> 3322

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 cgatgtctca ttctagaaga ctttcgttgg aacctgctat agattcaatc actggtcgat 180
 ttcgtgattt acagagaaat gatgatgacg tcaacaaacc tgattttcga gaactcgatc 240
 taggttctcc tgtttctacc ttaatgccac gtggctctgc ttcttcttcc gctgctgcga 300
 ctctactag cagctctggc tcttctggct ctgcttctgg taaaccgtcg gtgagttctc 360
 agatggctaa acggttagat gatgcttaca agagtcattc cggatgaagct ttctaacc 420
 gga 423

<210> 3323
 <211> 497
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-C7

<400> 3323

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tagattactt aagctatggg ttggttttaga atcgggttctt ctgtggcaaa gcttgccata 180
agaaggacac tgtctcagtc tcgttgtggg tcatatgcca ctagaacaag ggttttgcct 240
tgtcaaacca gatgttttca ctctacaata ctcaaataca aggcagagtc tgctgcacct 300
gttccacgtc ctgtcccaact ttctaagcta actgatagct tcttagatgg aacaagcagt 360
gtgtatctag aggagttaca aagagcttgg gaggctgatc ccaacagtgt tgatgagtcn 420
tgggataact tttttaagaa ttttgtgggt caaggcttct acatcgcttg gtatctcggg 480
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<210> 3324

<211> 425

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-C9

<400> 3324

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gactgattgt aagcttgctg gtttcctcgg tttactcaga gttcttattt atatgactta 180
tgcagatggg aaaacaacca tgtcggttta cgaaagaaaa gccagtattt gagagttcca 240
aggtatgctt atatatatgg cgatgatatt atttctggta aacaagattg atatcgttta 300
attcttatga gctttttaat attttcgta tgtttttagct gtgatattac catctttgtc 360
acaactacaa aggggtgtta cagacataga tgacagcaaa caaaaagagg tatgcaagat 420
gcgat 425

<210> 3325

<211> 448

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-002-Q1-E1-A2

<400> 3325

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 ttggtcacct ctgaaatata tgagatagaa gcgaaagata aggaatgtct aaaaggatac 120
 attgatgcgc ctttaagcta ttgtatggct aggatttata cgtcgtttgtg ttatcgaaat 180
 tgtcgttttt acaagggcgc gaaaggtgga aaatgcgacg gtcttaagtg cttctgcgac 240
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 tataatgggt tgtgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
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 atttcggttg tggatnactc cacgagtg 448

<210> 3326
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E6

<400> 3326

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 aataagaaaa gaaaggtagt gtatatcaat ttattaatga cgtatttaat aaagttggtc 180
 tcaagcgaat tgaattgttc tttactgcta caaggcatat aatcctgtaa agaaaatctg 240
 ggtggtcgaa ttgttctttt ccctttttct aatttcaaca tcaaaagttg ttccaccaga 300
 agaatttggt ctctgcagca gtaaagatcg atccgttctt gcttacaagc agaaaaatca 360
 tatcgacaga gagagatgag acagaactca gcaactgggt ggtctttcat ggcggcggtt 420
 actgttctct cgct 434

<210> 3327
 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E7

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tgcggtgtgtg tgaagaaagg atggaccttc tgcgtgcagc cctgggttggg gccctggaa 120
cgccatatca cgatgggctt ttcttttttcg acataatgct tccacctcaa taccctcatg 180
agccaccaat ggtacattat cattcagggtg ggatgcgact gaatccgaac ctgtatgagt 240
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acgcaggggag ctctcccatc cttcaacttc ttctttcgtt tcaggctctg gttctgaatg 360
agaagcctta cttcaatgaa gctggctatg ataagcagtt gggccgaacc gagggaaaag 420
aaaaactcag tgagt 435

<210> 3328

<211> 431

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E8

<400> 3328

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ctcactctcc tcctcttgat gctttgggtt ttcttccga agactatcac cagagcgagt 120
atgtttctgc acgagacaaa cgccgtgagt tcgtgtctgg attcagtgga agtgcagggt 180
tggcacttat cacgaagaag gaagcaagac tttggacaga tggtcgatac ttcttgcaag 240
cattgcaaca gcttagcgat gagtggacac taatgcggat gggagaagat cctcttggtg 300
aagtttgat gtctgataat ctacctgaag aggcaaatat aggtgttgat tcatggtgtg 360
tctcggtaga cactgcgaat agatggggga aatcgtttgc caagaagaat caagaaacta 420
atcaccacaa c 431

<210> 3329

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-001-Q1-E1-F2

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gtgtttgtgg agaaaatatt gaggattcaa ccaaaggtaa agaagctttt ccttcttttg 180
agagcagcag acaatgaatc agccatgcaa cggtttcaca gtgagggttt ggagaaaagat 240
cttttttagag tgttgaaaaa cgcttttaggt gatgagaatc tgaaagcttt cataacagaa 300
aaagtcgtac ctattcccggt tgatatatcc gttgataatt tgggagtgaa ggggttctgat 360
ctcttacaac atatgtggaa tgagattgat atcattgtca atgtagccgc cacaacgaac 420
tttgat 426

<210> 3330
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-F6

<400> 3330
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cctgagcagc taagaacaat gatgtttgga gggaacaatc gagctcaggt gttttttaag 180
caacatggat ggaatgatgg tggtaagatt gaggctaagt atacttcaag agctgctgat 240
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ccgtcgttat cctctgttgc tacttctcag ccagtggaat catctgaaaa tgggtttact 360
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gctt 424

<210> 3331
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-F7

<400> 3331

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 tcggtgcctt tgatcttcat ctctttggct ttgctttgaa atttcagggg tgaacaagat 120
 gccttctccg ttggcagtgg tgtgggtttt ctctccttcg atgtagttgt ggatccgatg 180
 tgttgggaagt agagagttgc tacgattccc ttcggttgtg gacgccgggt ggtgtagcga 240
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 agagaagggt ggtaagtgcc aattcgccat gggagggttaa cggtggatnt tcttaaattt 360
 gttggctgtc gcggattcag tgtgtttggg tgtttcgctt gagccttggg ccctcaaaca 420
 acancgtgac ttgct 435

<210> 3332
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-001-Q1-E1-G3
 <400> 3332

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 aggagatgag gggataaaga tggttatgga atgcaaggca taccacaac ttaaaggctg 180
 ttggaaagaa attacatctg ctttaccttg gaggacttat aatagtgtgt atcatcgtgc 240
 acatactata tttgaagcag gatctcaggg gatatggacg aaagaggata ttgaactcgt 300
 tatggagttt caaaagacac acgggaatga ttggaaaaca cttgcagatg caatgggtaa 360
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 acattggatg agggaag 437

<210> 3333
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-001-Q1-E1-G5
 <400> 3333

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tctgataag atttcaagtc tctgctctaa gctggactcg ttatggagtg aacagccagg 240
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ttttgataat gagattgttc ttggtcctta tgggtgttaca tgttccagag ataagcgtgc 360
tgtgtctgga aatcgttctc cggattcaga tattccttat attaggagt atgacgatga 420
gaaacgtcat gat 433

<210> 3336
<211> 470
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-H7
<400> 3336

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caaacaagcc tatatgctgc tgatcccatc taggggccaa gcctctcttc tttaaaaact 180
tttgacttcc attttcttga gaattcccct ttctgggttc ttgatttggga aagatgggta 240
acaagataat ctcaatgatg aagaaagata gcaaagatgg gaggaagang aggatctaaa 300
gagcaaagag aatgaatcgg tctcaagagg aaaattactt gctgatgaaa gagatgtttg 360
catcctcaa gtccttttcc aatggngaatt tcaacaagc tcaagctttc tcaaaaaatt 420
tngatgggtt caaaggtcaa aaacgggggtc cgggggtcaa caaagtanaa 470

<210> 3337
<211> 438
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-H8
<400> 3337

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 ttagttatta ttacnaagac aacaatagtt acaaccgttg ttaanggatt tggatacaac 240
 aataagacng ctcttctggt tggaatatct ctggctcaga taggggagtt tgcctttgta 300
 ctacttaacc gtgcctccaa tctcaactc atcgaangga aactccaacc tggctcccc 360
 ttggaacaan ccgctctaaa gcctgggtta cgacaaccgc tgggttttca aaaatggata 420
 ccaacaattt gtacatcc 438

<210> 3338
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-002-Q1-E1-A10
 <400> 3338

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 ttcagatcta ccacaaaaag ctcttggaat gcggtgaagt atcacaacag gatattgacc 360
 ggatacagga aaagggttaac accatcctca atgaaagaat ttgtccctaa gtaaaggact 420
 aaccccc 428

<210> 3339
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-002-Q1-E1-A12
 <400> 3339

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taatgttatc gccgagtact tctttgacag gtttcacttg aagctccaca cagcagggct 120
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 tgactttgca gccaagtact tcgggatgag agggaggttg tggacgttgt ggatcataca 240
 gacggctggt ggcctcttct gtgtgtggct cggccgcgcc aacacccttg taactgccgt 300
 tgtggctatg gtgctcttct ctatgggggc acaagctgct tgcggagcca cctttgcaat 360
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 gggaac 426

<210> 3340
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-001-Q1-E1-E5
 <400> 3340

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 gcctttgctt cagtctcact tatcatagcc acagttgctt tcttgctctc accaggtggg 180
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 gaaccggaga cggctaaaga gattttgagc aagctctgct tttgctgacc ggnccggttaa 420
 ggatcagctt aag 433

<210> 3341
 <211> 393
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3341

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gataaatggc gtaatttaag tgttgctcct ggtattcaag gctcnaagga nttaagatac 360
cggcaacaaa natcaaanct ggcggtttc aac 393

<210> 3342
<211> 360
<212> DNA
<213> Arabidopsis thaliana
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gctgtgacaa gctaggggtg aagaaagggc cgtggacggt ggaggaagat aagaagctta 180
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tccgtcgctg tggaaagagc tgccgcctcn ggtggactaa ctatctccg cctgacttaa 300
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<210> 3343
<211> 418
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E2
<400> 3343

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cgcaggtttg caaagatgtg gaaagagttg tagacttagg tggataaatt atttgagacc 180
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<210> 3346
<211> 258
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G12

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnncca aattttcaat caataatttg gtaatcttca gaattatctt gtccnnnnnnn 240
nnnnnnnnnn nnnnnngg 258

<210> 3347
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3347

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gtttctcatt ccnactttgg ttcctttgt 449

<210> 3348

<211> 447
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-082-Q1-E1-F3

 <400> 3348

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<210> 3349
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-H2

 <400> 3349

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 cgacgtcggt gcgtctctca agaactctgca acttaataaa gtnnagtcct ccccttnctc 180
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<210> 3350
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 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: 31-LIB22-084-Q1-E2-H3

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taaattggcg acgattgctc gtcttctcaa cggtcgtacg gacaacgccg tnaagaatca  420
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tactaatccc gatattacct tcccgttgaa gcttttcaag cctgttgctt aaaacctggg  660
tgctgttgtn ccnaccgggt tcctatcnaa acgttcgtcc ttccttcga atgattcaac  720
cgacttcgtt aaancttgct ancttccttg gtgccacnt taagcnaang gatcaaaccg  780
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 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: 57-LIB22-072-Q1-E1-G11

 <400> 3351

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aatggctgat aggatcaaag gtccatggag tcctgaagaa gacgagcagc ttcgtaggct 180
 tgttggttaa tacggtccaa gaaactggac agtgattagc aaatctattc ccggtagatc 240
 ggggaaatcg tgctgtttac ggtgggtgcaa ccagctttcg ccgcaagttg agcatcggcc 300
 gttttcggct gaggaagacg agacgatcgc acgtgctcac gctcagttcg gtaataaatg 360
 ggcgacgatt gctcgtcttc tcaacggtcg tacggacaac gccgtgaaga atcactggna 420
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 <212> DNA
 <213> Arabidopsis thaliana
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 <223> Clone ID: LIB22-027-Q1-E1-E1

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 atattctaac caagcaaattg gaagagaaga cctctggaac ccttgacaga tctactagta 180
 tgtccaatga cataagacaa gctcgtatac gactttctga actggaagag aaatcaagga 240
 aagaaaattc attggatatg tacctcgtct tgggtgttgt accatcatgc tcggcttcag 300
 atatcagaaa ggcataatagg aaggccgcac tcaaacaatca tcccgacaag gctgggtcagt 360
 ctttgacaag aaacgaagac taaagatgag angttatgga aggagatagg ggaaagaatg 420
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 cctg 484

<210> 3353
 <211> 449
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 ggttcatatt cctccatggc cactttctga agatctaacg gtgtctgata ttacggaag 180
 tcnagacgga ggaagtagta tgatggaagc tttggctgag ttacaacgtt atcttccgtc 240
 aaacgaaccg gatccggatt cagatccgga tctctcgggt ccggattcac caatcgatgc 300
 ttatacatgc gatcattttc ggatgtatga gtttaaagt agacgttggtg ctctgggccg 360
 gagccatgat tggacggagt gtccttacgc tcatcccna taaaaagctc gccgtcgtga 420
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<210> 3354
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana
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 gcataaaggt tttgactttc atcgtttcca ctggaaaatc tgatgtgaac agagcttggtg 180
 gtgaagagag agttactccg cttcactgtg ctgttgctgg ctgttctgtg aatatgattg 240
 aagtcacaa tgtcttgctt gatgcttctg ctttggttaa ctctgttgat gctaattggga 300
 atcaaccttt ggatgtgttt gttcgagttt cgaggtttgt ggctagtccg aggaggaaag 360
 cggttgagtt gttgctgaga ggaggangtg ttggaggatt gatcgatgaa gcggttgaag 420
 aagagatnaa gattgtctct aaatatccaa ctgatgcctc cttaacggga taaaaa 476

<210> 3355
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3355

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cttctcgaat caccatcatg agtgaccatg gcgagangac ttgtccactt tngngctgaag 180
agatggatct gactgatcaa caattgaagc cttgcaaagt tggttatcan atttgtgttt 240
ggtgcnggca tcacatanng gacatggnac aganagatca antagaaggc cgttgtccag 300
cttgtcgcac tcnatatgac atngaaanga ttgtagggat gactgttaat tgtgacagtc 360
tggcttctga aggcaatatg gancgcaaga agattcanaa gtcaaaatca aaatcttctg 420
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<210> 3356
<211> 435
<212> DNA
<213> Arabidopsis thaliana
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tcatgttgtg gaggaacatg agatgaaaga tgaagatgat gtggaagaag gagagaacct 180
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tcacttctgc acgatatgtg gcaagggttt caagagagac gcgaatttga ggatgcatat 300
gagaaggcat gganatgagt acaaaacagc agctgctctg ggcgaaaccg aacaaaggaa 360
tccgtaaccg ggtctgaacc gatgctgatn aagaagtacc cgtgccaatc ccttggttca 420
aacttacaag gacaa 435

<210> 3357
<211> 457
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A5
<400> 3357

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 agaaatcgaa tcaaggcaaa aggaagaaga aacaatgctt ctctcgaat tcgctgcttg 180
 tgatgatctt gactcgttca agagagaggt tgaagagaaa gggcttgatt tggatgagtc 240
 aggggttatgg tattgcagac gtgtcgggtc taagaagatg ggtcttgaag aaagaacacc 300
 tttaatgggt gcagctatgt atggaagcat aaagggtttg actttcatcg tttccactgg 360
 aaaatctgat gtgaacagag cttgtggtga agagagagtt actccgcttc actgtgctgt 420
 tgctggctgt tcngtgaata tgaatgaagt cctcaat 457

<210> 3358
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-026-Q1-E1-A12
 <400> 3358

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 ttgttgcttt tttttgccat gggagttgat gagctgtctc acctcaaatt ctctcttctg 180
 ctagaatcat cagcctgcaa tgatttgtcc ggttttaagt ctctagttga agaagaaggt 240
 cttgagagca ttgatggctc tggtttggtg tatgggagga gattaggatc aaagaagatg 300
 ggttttgagg agaggacgcc tcttatgatt gctgccttgt ttggaagcaa agaggttggt 360
 gattacatca ttagtactgg tcttggtgac gtgaaccgct cttgtggctc ttggtgcc 420
 acggtctctc actgtgcggt ctctg 445

<210> 3359
 <211> 502
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3359

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gattgtangg atgacagtca gctgtgaaag gttggttgct gaattttaca ttgaccggaa 180
aaagtcacag aaggcgaagc ctaaacttgc ggagggaagg aaagatctaa ctggtgtgag 240
agttattcag agaaacttgg ttacgttat gancctgcct ttgacctgc cagatgaaga 300
tatgtttcag cgaagagaat actttgggtc atatgggaaa gtcgtcaaag taccaatgtc 360
tcggactgca gctggggctg tccaacaatt tccaaaacaa tacttgcatg gntataatt 420
acttacccaa anaagangga ancgantcca agttaccga ttaattacat ggattaatat 480
ttggatggta agaaaatttg na 502

<210> 3360
<211> 407
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-038-Q1-E1-G5
<400> 3360

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atcctaaaat tttaatcagc cgcagatgtc tgagctccgg gagttacgtc tcagaaatgc 120
agaaatcagc tttccagggc aacattttgc gactgatccg taatgagatt gagtacgaac 180
tcgatcactc gcctcctctt cagcctccta acagttttgg tccattcact gtggatgaac 240
ggcctggaga gcagtggatt agcttgaaaa ggaattttgg ggataaagaa gacatcaaaa 300
ttgaagcaac tatgtttgat agatcagttc ccacgtcaaa atctacaaa actgaacctg 360
aatatattct tcacatcact ttcattgtca acatctccaa ggggtggt 407

<210> 3361
<211> 443
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 3361

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aacacaccgc aacaacaacc aacattcatc gccaccaaca caaggccaaa cgccaccgca 120

tccaatggtg gctccggagg aaataccaac aacacggcta cgatggaaac tagaaaggcg 180
 aggccacaag agaaagtaaa ttgtccaaga tgcaactcaa caaacacaaa gttctgttat 240
 tacaacaact acagtctcac gcaaccaaga tacttctgca aagggtgtcg aagggtattgg 300
 accgaagggtg gctctcttcg taacgtccca gtcggaggta gctcaagaaa gaacaagaga 360
 ttctctacac ctttagcttc accttctaata cccaaacttc cagatntaaa cccaccggat 420
 tcnttttctca angccaaaat ccc 443

<210> 3362
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-009-Q1-E1-A12
 <400> 3362

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 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180
 nnnnnnnnnnn nnnnggcacg gggtacatat gggattttcc tctgcatcga ttgttcagct 240
 actcaccgga atcttggtgt tcatatcaag cttcgtcaga tcaacgaatt tagactcttg 300
 ggagcccgga gcagctcaag ggacaatgat gtttnggtgg gtaacaaacg tgcccaaagg 360
 tttccttcaa agcaacaatg gatgggactg aatgggtggca aaantgaaac naaatntaat 420
 tcaanaactg ccgaattgta accgna 446

<210> 3363
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-011-Q1-K1-E4
 <400> 3363

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 cgaggaagag atatgtgcgg tgcaaagagc aacctttgct catctaaaac cctatcagaa 120

gtcgaattca tgaggcagaa atcagaagac ggagcttccg ccacgtgtct cctcgaattc 180
gccgtctgtg atgatctttc atcgtttaag agagagatcg aagagaatcc atcggcggag 240
attgatgagt caggggttttg gtattgcaga cgggtcgggt ctaagaagat gggttttgaa 300
gaaagaacac cacttatgga tgctgctatg tatggaagca tggaagtgtt gaattacata 360
attgccacag gaagatccga tgtgaacaga gtttgcatg acgagaaagt cactgctctt 420
cactgtgcag tttctggctg gactgtttct atcgatgaga tcatacaagat cttgcttg 478

<210> 3364
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-085-Q1-E2-B1

<400> 3364

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ctaacagaag tcgaattcat gaggcagaaa tcagaagacg gagcttccgc cacgtgtctc 180
ctcgaattcg ccgcctgtga tgatctttca tcgtttaaga gagagatcga agagaatcca 240
tcggtggaga ttgatgagtc aggggttttg tattgcagac gggtcgggtc taagaagatg 300
ggttttgaag aaagaacacc acttatgggt gctgctatgt atggaagcat ggaagtgttg 360
aattacataa a 371

<210> 3365
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-058-Q1-E1-B11

<400> 3365

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tttctccaag ttatcttctt ttctaggaag agatatgtgc ggtgcaaaga gcaacctttg 120
ctcatctaaa accctaacag aagtcgaatt catgaggcag aaatcagaag acggagcttc 180
cgccacgtgt ctctcgaat tcgccgcctg tgatgatctt tcatcgttta agagagagat 240

cgaagagaat ccatacgggtgg agattgatga gtcaggggttt tggatttgca gacgggtcgg 300
 gtctaagaag atgggttttg aagaaagaac accacttatg gttgctgcta tgtatggaag 360
 catggaagtg ttgaattaca taattgccac aggaagattc gatgtgaac 409

<210> 3366
 <211> 400
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-001-Q1-E1-B5
 <400> 3366

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 tatcttcttt tctaggaaga gatatgtgag gtgcaaagag caacctttgc tcatctaaaa 120
 ccctaacaga agtcgaattc atgaggcaga aatcagaaga cggagcttcc gccacgtgtc 180
 tcctcgaatt cgccgcctgt gatgatcttt catcgtttaa gagagagatc gaagagaatc 240
 catcgggtgga gattgatgag tcaggggttt ggtattgcag acgggtcggg tctaagaaga 300
 tgggttttga agaaagaaca ccacttatgg ttgctgctat gtatggaagc atggaagtgt 360
 tgaattacat aattgccaca ggaagatccg atgtgaacag 400

<210> 3367
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-014-Q1-E1-D6
 <400> 3367

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 ataacaaagc aagagaagca atgggactat catattcatc aaaccaaca ccgtagata 180
 acgaccagaa gaaaccttct cctgcaacgg ctgtgacaag gccacagcct ccggagctag 240
 ctctcaggtg tccacgttgc gactcaacan acacaaagtt ttgttactac aacaactaca 300
 gtctcactca gctcgtctac ttctgcaa atcatgccggag atattggact aaaggtggaa 360
 ctctaaggaa catccccgtg ggtggaggct gccggaaaaa caaacgatcc acatcttcgg 420

ctgcaagaag cctcagaacc a

441

<210> 3368
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-C6

<400> 3368

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catcatcatg atcaatacca acatcagatg atgactagta ctaacaataa ttcctataac 180
accatcgtca caacacaacc accatcaaca acaacaacaa tggattcaac aacagcaata 240
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ccaagagact gtccaagatg caactcaagc aacaccaagt tttgttatta caagaactac 360
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<210> 3369
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-058-Q1-E1-C10

<400> 3369

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aaaagggtct gattcgtttg ttttttctact gaagaatttg gaaggaagtg attccgttgt 120
gaaacataaa agaagtatgg gtactcacat tgatatcaac aacttaggcg gcgatacttc 180
tagagggaat gagtcaaagc cattggcgag gcagctcttcg ttatattcct taacgtttga 240
tgagcttcag agcacattag gtgagccggg gaaagatttt gggctctatga atatggatga 300
gttactcaag aacatatgga ctgctgagga tactcaagcc tttatgacta ctacatcttc 360
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<210> 3370
<211> 413

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-065-Q1-E1-C5

 <400> 3370

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 cttcgacggc agattttctc gcgagaagct cgccgaaggt caagctggag aagatggatc 180
 cggagtcgcc aactcgcgc gagctctaaa ttcaatagac ggtcagatct ctcgctttgt 240
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 cgatgagctc gttgcaatca ttagagagtg gagtncatg gcttcagaga aacctatcgg 360
 catctgtcta acacgcgccg acgatatgat gcagcaagct atgttccgca tcg 413

<210> 3371
 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-082-Q1-E2-A1

 <400> 3371

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 aatttgatcg tcctgaattc atcgtcctat ttaaggtttc gatcacaatc tgaagaggat 180
 gtcatggacg tttctgctaa aaagtcacaa aaagctgggc gcgaaaagtt gaggagggaa 240
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 gacaaagcca cgattctgac tgatactggt cagttgttga aagagctcac atctgaagtc 360
 aacagactga aatctgagta caacgcattg acagatgagt cccgcgagtt gacaca 416

<210> 3372
 <211> 171
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-036-Q1-E1-C10

<400> 3372

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aacggagccg atccgacaga gttcggacct tattaacaag gttcgaagtc atttcaattt 120
cgaccgcgga gctggagagt tatcgggtct taagtggaag cttgaccggg a 171

<210> 3373

<211> 420

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-019-Q1-E1-D8

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aagttctatc attcggagat aaaaccgccg gagaatcaga tcactccgat ctagaagctt 180
ccgtcgtgaa agaagtagca gtagagaaac gtccaaagaa acgaggaaga aagccagcaa 240
acggtagaga agagccacta aaccacgtcg aagcagagag acaaagacgc gagaaactaa 300
accaaagatt ctacgcgtta cgagcgggtt gtacaaacgt ttcaaaaatg gataaagctt 360
cgttactcgg tgacgcaatc gcttacatca acgagcttaa atcanagtag tcaaaacaga 420

<210> 3374

<211> 410

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-F9

<400> 3374

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ttgatccctc tggaaaagga ggggagaata gcagttcatg atgggatttt gtatctgccc 180
gttggagtca cctgcgagat tactatggag tacaagcttc ttccgccata agatcatgat 240
cttctaatec ttctacttc tteccatctt tttaatcatc ttctcgctat ctctgcttcc 300
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<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-C4

<400> 3375

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ttgttgtaat ttcaaaactt cataagaatt tctctgataa taaagaaaaa gctggagtag 180
aactatttta aagtgtcatc atgaagagac taagcagctc agattcaatg tgtggtctaa 240
tctccacttc tacagatgaa cagagtccaa gagggtagcg aagtaattac caatctatgc 300
ttgaagggtta cgatgaagat gctacactaa tcgaggaata ttccgggaac caccaacaca 360
tgggtctatc ggagaagaag agaagattaa 390

<210> 3376
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-076-Q1-E1-D3

<400> 3376

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gatgattcat gcaacacagg tcttggtctt ggtttaggcc tctcaccaac gcctaataat 180
tacaatcatg ccatcaagaa atcttctctc actgtggacc atcgtttcat caggctcgat 240
ccgtcgttga ctctaagcct atccggtgag agctacaaga tcaagactgg tgccggcgcc 300
ggcgaacaaa tttgccggca gacctgtcc cacagcggca tctcatcttt ctcgagcgga 360
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acggat 426

<210> 3377
 <211> 395
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-067-Q1-E1-H9

 <400> 3377

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 agagcttaca acgtcggagt ttttttttct ccggtgatga atagtccaga ttgtagcatg 180
 cttgaagctt tggcgggggtt gcagcgttat ttgccgtcta acgaaccgga tccggagtca 240
 taccgggatc tattgggtcc ggattcacca atcgatgctt actcatgcga ccatttccgt 300
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 ccgtacgctc atcncggaga aaaagctcgc cggag 395

<210> 3378
 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-062-Q1-E1-G5

 <400> 3378

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 gttcttggtt taggcctctc accaaccgct aataattaca atcatgccat caagaaatct 180
 tctccactg tggaccatcg tttcatcagg ctcatccgt cgttgactct aagcctatcc 240
 ggtgagagct acaagatcaa gactggtgcc ggcgccggcg accaaatttg ccggcagacc 300
 tcgtcccaca gcggcatctc atctttctcg agcggaaggg taaagagaga aagagaaatc 360
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<210> 3379
 <211> 382
 <212> DNA
 <213> Arabidopsis thaliana

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gacaagcttt gcgaccagat ctctgatgca gtccttgatg cctgccttga gcaagaccct 180
gatagcaaag ttgcttgtga gacatgcacc aagaccaaca tggatcatggt tttcggtgag 240
atcaccacca aggctacgat tgactacgag aagattgtcc gtgacacttg ccgttccatt 300
ggattcatct ctgacgatgt tggctctgat gctgacaaat gcaaagtcct tgtaacatt 360
gaacaacaga gccagacat tgctcaaggt gttcacggtc acttcaccaa acgtccagaa 420
g 421

<210> 3382
<211> 432
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C9
<400> 3382

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ctgtgaacga aggacaccct gacaagcttt gcgaccagat ctctgatgca gtccttgatg 180
cctgccttga gcaagaccct gatagcaaag ttgcttgtga gacatgcacc aagaccaaca 240
tggatcatggt tttcggtgag atcaccacca aggctacgat tgactacgag aagattgtcc 300
gtgacacttg ccgttccatt ggattcatct ctgacgatgt tggctctgat gctgacaaat 360
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acttcaccaa ac 432

<210> 3383
<211> 474
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-011-Q1-E1-F11
<400> 3383

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acccatcagg ccggtttgtg atcggggggac cacacggtga tgctggatta actggacgta 180
agatcatcat tgacacatac ggaggatggg gagctcatgg acgtgggtgct ttctcatgca 240
cagacccaac cagagtctac agaagtggag cttacatcgt gatgcatgca acatagagtg 300
tcgtggctaa tagcatggct cgcagggtc gtgtccatgt ctcatacgcc attggagtac 360
ccgatccatt gtctgtcgtc gatgtcactt gcggaagatg gttgattcca gacgaggata 420
tcctgatgat cgtggaggag acattcgatt tcataccage gactgatgac aatc 474

<210> 3384
<211> 663
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F11
<400> 3384

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acccatcagg ccggtttgtg atcggggggac cacacggtga tgctggttta actggacgta 180
agatcatcat tgacacatac ggaggatggg gagctcatgg aggtgggtgct ttctcaggca 240
aagacccaac caaagtcgac agaagtggag cttacatcgt gaggcaagca gcaaagagtg 300
tggtggctaa tggcatggct cgcagggtc ttgtccaggt ctcatacgcc attggagtac 360
ccgagccatt gtctgtcttc gttgacactt acggaacagg gttgattcca gacaaggaga 420
tcctgaagat cgtgaaagag acattcgatt tcagaccagg aatgatgaca atcaacttgg 480
acttgaagag aggaggaaat ggaagggttc agaaaacggc agcgtatgga catttcggaa 540
gagacgaccc tgacttcacc tgggaggtcg tgaagccact caagtgggac aaacctcaag 600
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tca 663

<210> 3385
<211> 467

<212> DNA
 <213> Arabidopsis thaliana
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 <400> 3385

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 agctttgtga tcagatctcc gacgctatcc tcgatgcttg ccttgaacaa gaccctgaga 180
 gcaaagtgtc ttgtgagact tgtaccaaga ctaacatggg catgggtttt ggagaaatca 240
 ccaccaaggc taacgttgat tacgagcaga ttgttcgtaa aacatgccgt gagattggat 300
 tcgtctctgc tgacgttggg ctagatgctg acaattgcaa ggttctgggt aacattgagc 360
 aacagagtcc tgacattgca caaggtgttc atgggtcatct caccaagaag ccagaggagg 420
 ttggagctgg tgaccaaagt cacatgtttg ggtatgctac tgatgag 467

<210> 3386
 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-049-Q1-E1-A1
 <400> 3386

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 ttgtcatcgg agggcctcat ggtgatgctg gacttacagg gaggaagatc atcattgaca 180
 cttatggtgg ttgggggtgct catgggtggag gtgccttctc aggaaatgac ccaagcaatg 240
 ttgacagaaa cggtgcctat atcgtgaggc acgctgcaaa gagcgtggta gcagcacgac 300
 tcgcacgccg ttgtatcgtg caggtgtcat acgccattgg tgcgctgag ccgctctcaa 360
 tgtttgttga cacctacaag accgggacca tcccatataa tgatatacctt gtgttgataa 420
 aggaatc 467

<210> 3387
 <211> 391
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-015-Q1-E1-G12

<400> 3387

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 ttgtcatcgg atggcctcat ggtgatgctg gacttacagg gaggaagatc atcattgaca 180
 cttatgggtg ttgggggtgct catgggtggag gtgccttctc aggaaaggac ccaaccaagg 240
 ttgacagaag ctgtgcctat atcgtgagggc aggctgcaaa gagcgtggta gcagcaggac 300
 tcgcacgccg ttgtatcgtg catgtatcat acgccattgg tgtccctgag ccgctctcag 360
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<210> 3388

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-013-Q1-E1-A12

<400> 3388

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 atctgaatcc gtcaacgagg gacatcccga caagctttgt gatcagatct ccgacgctat 120
 cctcgatgct tgcccttgaa aagaccctga gagcaaagtt gcttgtgaga cttgtaccaa 180
 gactaacatg gtcattggtt ttggagaaat caccaccaag gctaacgttg attacgagca 240
 gattgttcgt aaaacatgcc gtgagattgg attcgtctct gctgacgttg gtctagatgc 300
 tgacaattgc aagggttctg ttaacattga gcaacagagt cctgacattg cacaaggtgt 360
 tcatggatcat ctaccaaga agccagagga ggttgaggct ggtgaccaag gtcacatggt 420
 tgggtatgct actgatg 437

<210> 3389

<211> 332

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-F6

<400> 3389

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cagtcatatg gaatcttttt tggtcacatc tgaatccgtc aacgacggac atcccataca 120
agctttgtga tcaaatccct aacaccaccc tcgatgcgat ccttgaacag gatcctgata 180
gcaaaattgc ttgtaatact tgtaccatga cgaccatggt catggcattt ggagaaatca 240
acaccacggc taactttgat gacaaataga ttgttcgttc agtatgctgt catattggaa 300
tcgactcagc tgacgtaggt caatatgctg ac 332

<210> 3390
<211> 359
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-047-Q1-E1-D5
<400> 3390

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aactcaacag aaatgcaagg cttgtgagaa gactgtttat gctgttgagc ttctctctgc 180
tgatggagtt ggatatcaca agtcttgctt caaatgcact cactgcaaaa gcaggcttca 240
gctgagtagt tactcatcaa tggaagggtgt tttgtactgt aagcctcatt ttgagcagct 300
ctttaaggag agtggtagtt tcaacaagaa ctttcagtca ccctgcaaaa tcggctgac 359

<210> 3391
<211> 362
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-031-Q1-E1-F10
<400> 3391

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caaggagagg gtgagaaaca gaagaagaag gtgagaaaag tgaacgcaag gctttgagga 180
tgtcttttac aggaactcaa cataaatgca aggcttgtga gaagactgtt tatgctgttg 240
agcttctctc tgctgatgga gttggatata agaagtcttg cttcaaatgc actcactgca 300

taagcaggct tcagctgagt agttactcat caatggaagg tgttttgtac tgtaagcctc 360
at 362

<210> 3392
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<212> DNA
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<223> Clone ID: LIB22-079-Q1-E1-G7
<400> 3392

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ccggcggaaa cttctacaga tgctacagag acgacgattg caacgacgga agctggtgaa 180
gcaccggaga agaaggtgag gaaagcttac acaatcacca agtctagaga gagttggact 240
gaaggagaac acgacaagtt tctggaagct cttcaattgt ttgatcgtga ctggaaaaag 300
atagaagatt ttgttggttc aaagacagtt attcagatca ggagccatgc tcaaaaatac 360
tttctaaaag tccaaaacaa tgggaatt 388

<210> 3393
<211> 398
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-042-Q1-E1-H2
<400> 3393

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ctgacaagct ttgcgaccag atctctgatg cagtccttga tgccctgcctt gagcaagacc 180
ctgatagcaa agttgcttgt gagacatgca ccaagaccaa catggtcatg gttttcgggtg 240
agatcaccac caaggctacg attgactacg agaagattgt ccgtgacact tgccgttcca 300
ttggattcat ctctgacgat gttggtcttg atgctgacaa atgcaaagtc cttgttaaca 360
ttgaacaaca gagcccagac attgctcaag gtgttcac 398

<210> 3394
 <211> 422
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-035-Q1-E1-D10
 <400> 3394

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 catctcttgg ttccttgatc tcttcaacta ctatgtcaat tctgaggaa acgagctttt 180
 tagcaaagaa ttgcagcttg attccaaggt gttttacttc gatatcggtg agaacagaag 240
 aggacgcttc ttgaagggtg cagaagcatc ggtagtaga aatcgaagta ccattattgt 300
 tccagctgga agctctcctg atgaaggatg ggcagctttc aggaatatat tggctgagat 360
 acatgaagca tcaggacttt ttgtgatgcc aaatcagaaa ccttctgatg gacaggaaca 420
 ct 422

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 <211> 397
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3395

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 ctgaagaaga cgagcagctt cgtaggcttg ttgttaaata cggccaaga aactggacag 180
 tgattagcaa atctattccc ggtagatcgg ggaaatcgtg tcgtttacgg tggtgcaacc 240
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 gtgctcacgc tcagttcggg aataaatggg cgacgattgc tcgtcttctc aacggtcgta 360
 cggacaacgc cgtgaagaat cactggaact cgacgct 397

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 <211> 408
 <212> DNA
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<223> Clone ID: LIB22-016-Q1-E1-D11

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gagtctgtaa acgagggaca ccagacaag ctctgtgacc agatctctga tgcagtcctc 180
gatgcctgcc ttgaacaaga ccctgacagg aaagttgctt gtgagacatg caccaagacc 240
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gtccgtgaca cctgtcgcg c attggattt gtctctgatg atgttggctt tgatgctgac 360
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<210> 3397

<211> 319

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-012-Q1-E1-F1

<400> 3397

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tctattcaca tctgagtctg taaacgaggg acaccagac aagctctgtg accagatctc 180
tgatgcagtc ctgatgcct gccttgaaca agaccctgac agcaaagttg cttgtgagac 240
atgcaccaag accaacaagg tcatgggtctt tgggtgagatc actnaccaag ctactgttga 300
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<210> 3398

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-026-Q1-E1-D12

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 actacgagaa gattgtccgt gacacctgtc gcgccattgg atttgtctct gatgatgttg 360
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<210> 3399
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 <212> DNA
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 <400> 3399

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 atctgagtct gtaaacgagg gacaccaga caagctctgt gaccagatct ctgatgcagt 180
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 <212> DNA
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 <400> 3400

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ttcacggtca cttcaccaaa tgtcctgaag aaattggagc cggtgaccat gggcacatgt 240
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 a 361

<210> 3401
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 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-032-Q1-E1-D5
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 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-050-Q1-E1-D9
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 gcaccaagac caacatggtc atgggtctttg gtgagatcac taccaaggct actgttgact 300
 acgagaagat tgtccgtgac acctgtcgcg ccattggatt tgtctctgat gatgttggtc 360

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<210> 3403

<211> 378

<212> DNA

<213> Arabidopsis thaliana

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<400> 3403

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gacaccctga caagctttgc gaccagatct ctgatgcagt ccttgatgcc tgccttgagc 180

aataccctga tagcaaagtt gcttgtgaga catgcaccaa gaccaacatg gtcatggttt 240

tcggtgagat caccaccaag gctacgattg actacgaaa gattgtccgt gacacatgcc 300

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<210> 3404

<211> 394

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-071-Q1-E1-A5

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gagttgcttg tgagacatgc accaagacca acatggatcat gggttttcggt gagatcacca 240

ccaaggctac gattgactac gagaagattg tccgtgacac ttgccgttcc attggattca 300

tctctgacga tggttggtctt gatgctgaca aatgcaaagt ccttggtaac attgaacagc 360

agagcccaga cattgctcaa ggtgttcacg gtca 394

<210> 3405

<211> 420

<212> DNA
 <213> Arabidopsis thaliana
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<212> DNA

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<223> Clone ID: LIB22-052-Q1-E1-C3

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 ccggtaacaa agacatcatc atggtcgacc acatgaggaa gatgaagaac aacgctattg 240
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 gtgtgaagcg tatcaccatc aagccacaga ctgacagggt ggtgttccca gagaccaagg 360

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 ggtgttaaga ggctttacca gatgcagcan aatggaactc ttttgttccc tgccattaac 360
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 agtttcgtga tgtcttgctc tttcaccaac caggtgattg cccagctcga gctctggaac 360
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<223> Clone ID: LIB22-089-Q1-E1-E10

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gtgagactct tcaggagtac tgggtggtgta ccgagcgtgc tctagattgg ggtccagggtg 300
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<212> DNA

<213> Arabidopsis thaliana

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ctcatcgaga ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcggt 300
tccactcaag accacgccgc cgcagccatc gtcctgact ccgccgctgt tttcgctggt 360
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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A10

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 gtctcgaact cgagctcgcc gaagttgaga tgcttgact catggcttgt cgtaccgaat 180
 tcggaccttc tcagccattc aaaggcgcta gaatcacccg atctcttcac atgaccatcc 240
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 gtctcgaact cgagctcgcc gaagttgaga tgcttgact catggcttgt cgtaccgaat 180
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<223> Clone ID: LIB22-025-Q1-E1-G5

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aagaccacgc cgccgcagcc atcgctcgtg actccgccgc tgttttcgcc tggaaaggtg 360
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<211> 403
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<223> Clone ID: LIB22-056-Q1-E1-F10

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<210> 3455
<211> 412
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aattgctcgg cacaaaatta aagttgggta gtaatgggga actgcatcaa at 412

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<223> Clone ID: LIB22-047-Q1-E1-A5
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<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-066-Q1-E1-C5
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 <223> Clone ID: LIB22-040-Q1-E1-A8

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 gaccgccgta ctcatcgaaa ccctaactgc tctcgggtgt gaagtcagat ggtgttctctg 300
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aactcgagct cgccgaagtt gagatgcctg gactcatggc ttgtcgtacc gaattcggac 180
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<210> 3473
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 gagtttcaac taatggcgaa caaanggttt ncccaaagt canccccttg aaancacngt 420
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 <223> Clone ID: LIB22-068-Q1-E1-B11

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 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-083-Q1-E2-G5
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<210> 3478
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 <212> DNA
 <213> Arabidopsis thaliana
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anattcantt tcagattctc cacctccaaa ggctcggcga aaaaggatag tgaggaagaa 240
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<210> 3479

<211> 479

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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aagatgaagc agcttgattc tgggtcttcc acttctctca tcgaagttct cganttgaag 240
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<210> 3480

<211> 449

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-088-Q1-E1-G9

<400> 3482

acgcgtccgn ccacgcgtcc ggctggttct aaacctgaga tccttcttgc tatgagctgc 60
ttgtgtaaag gtagccctga tgcctttctt gtgtgcaatg gattcaaaga tgctgagtat 120
atatcattgg ctctgcttgg gagaaaactg gcgttgaata ctgtgattgt gcttgagcaa 180
gaagaagagc ttgatctggt tattgagctg agccagaaga tgaatgtgag gcctgtcatt 240
gggttaangg ctaagctgag gactaagcat tcgggtcatt tcggatcaac ttctggtgaa 300
aagggtaaat ttggattgac tactactcag attgttcgtg tggatgaagaa nctgcgtcaa 360
tccggtatgc ntgaattgtc cccaagcttc tgcaatttca aaattgggggt cacaaaattc 420
cgttcaactt cggtgcccc cgaaggtgt tcnc 454

<210> 3483

<211> 505

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-088-Q1-E1-H3

<400> 3483

actgttacct gcctgtaccg gtccanaatt cccggntcga cccacgcgtc cgtggagata 60
tgtantgana agaatcatga tgagatagat tttgagtttc ttggtaacat tagagaaaaa 120
gaatggagag ttcagacaaa catttacggt aatggaagta ctcatcagg aagagaagag 180
agatataatc tctggtttga tcctactgaa gattttcatc aatacagtat cctctggtct 240
gattctcaca tcatattcnt tgtagacaat gttcctatta nagagggtcan acgtactgcg 300
gaaatgggtg gtcactttcc atcaaagccc gatgtctctc tacacaacaa tatgggacgg 360
ttctaaatgg gcaactaacg gtgggaaagt acggggtaaa ctacaaatat gccgccttac 420
attgcgcggt tctcgggatc tagtccctgc aacgggctgc ccccgttgga ccctaaccga 480
gcaatttccc gaaggtgcga atgaa 505

<210> 3484

<211> 418

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H9

<400> 3484

atttcgatgg cgggattaga gaaaaacgct gatttctcag ggaagacgac naaatcggct 60
acaacgacgt cgttcttcaa caggtcgctt acaattcacg gnagaacant ggtggattcg 120
ggccccaat cccacaatct caatccttct ctcaatcgta ccacctccat taccaaattc 180
tacacccccg tagaatcgat gggaacttct cttaaaggca aagtcaaaga acctttgtag 240
attattcgag atttccaaac cgtttaaacc tgccttanct gagattcctc agaagcagaa 300
atccggtaaa tcccttttac ccgaatcncg gatatcgct ttttcgagct taaacanctc 360
ggcatccgt cctcncggga caanaggaca ngattgtggn gtattttacc aacttgag 418

<210> 3485
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A10

<400> 3485

acgcgtccgc ctaatcatca ctcggtgct tctgacgca gcaggaacta cttgtgggtca 60
acgtctagag aaagtgtacg gatctcagta ttgtgatatc ctccgtgtgc cttttagaac 120
agagaaagga atcggttcgca aatggatata aaggtttgag gtctggccgt atctagagac 180
ttttaccgag gatgttgccg ctgaaatctc gaaagagttg caggggaagc ctgacttgat 240
cattggaaac tacagtgatg gtaatcttgt tgcaccttg ttagcacaca aacttggtgt 300
cactcagtgc accatcgctc atgctttgga gaagactaag taccggatt ctgatatcta 360
ctgggaagaa gctcgacgag aagtatcact tttcttgcca gttcacggct gatcttancg 420
cc 422

<210> 3486
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-A11

<400> 3486

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gggcataaac ccattacacc aaaacctcat cgtagagaga gaaacacacc aaccattgtt 60
acactctaag agaagagaag agagaaggaa aaatggacgg tgtatcacca aagtttgtgt 120
tgccggagac attcgacggc gtgaggatgg agatcacagg ccaactaggc atgatctggg 180
agcttgtaaa agcaccagtg attgtccctc ttcttcaatt agctgtttac atctgtttgc 240
ttatgtctgt catgctttta tgtgagaggg ttacatggg aatcgtcac gtcctcgta 300
aactcttctg gaaaaaacca gacaaacgtt acaagttcga gccattcac gatgatgaag 360
agcttggtag ctccaatttc ccgctcgctc tcgtacaaat cccaagttc aaa 413

```

<210> 3487
 <211> 515
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-089-Q1-E1-A2

<400> 3487

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tttaccggcc caaaattccc gaatcgaccc acgcntccgc tttcttcgaa tctcgacggc 60
tgaaacagat tctaaattta tctccggtga gaaagagata gagagcggtg attccggcga 120
aaagatgtct gaattcgaag atcacgaggg aaacggtacg gttgctgacg cgatttacga 180
cgaagagaat ggtggccgcg acggcgaaat cgaggatcaa ttggactcga aaccaagag 240
agaatcgctg gaccatgaaa gagagacatc aagaagtaaa gatagagaaa gagagaaggg 300
tcgtgataag gacagagaaa gagactctga agtctctcgc cgaagcaggg atagagatgg 360
agaagaaaag caaggagagg agtagagaca aagacagaga tnatcntgag cgtcntccca 420
anaattatcc ctccacangg atnataccag ggaacntgg tgaaaagaaa nanaacntgg 480
tgggtaggga tgatgatgaa ttaccgctcg aancc 515

```

<210> 3488
 <211> 533
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-089-Q1-E1-A3

<400> 3488

ttttacgccg ccctntacgc cggccagtag cgcgctcnnaa cattccaggg ccnacgcatt 60

nttcccagga cgaatgagag ctccacacan tggctgcttg cgctactcac tcctctctca 120

tgctagcata cgccgcccga tccactcggt cccaggacct taccctact ccatctcttt 180

tctcttttgc cangctccag acccaaccac ttgagcttcc cgcttcttct ccttgggggt 240

tccagggacc ggagatgtgc tgctattgnc agagcttcca accacaagtt tattgtctcc 300

gccgtggccg ctgaggntga cctcgacacg gaggaggacc tgcagcaaac ngccaccgcc 360

gtccttgatc cgcccaagcc taagaaagga aaagccgctt tggttctcaa ngaagagatn 420

gaacaagggc ctaanaaggt ttttgggnaa tcccanaagg ctatggggaa accaaanagg 480

nggttatgat gtcaacactg ctatctcntt gcttaaacia aactgccanc aca 533

<210> 3489

<211> 520

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-089-Q1-E1-A4

<400> 3489

acgttaccgg cntttaccgg nccaanaatt cccgaaancg acccagcct ccgagaaaga 60

ttaacaaagt tgaggaaata cgtggcttaa ggggaagctg ggttggacc cagatcagtg 120

ggggcacact cgtttcaa at tattcaatgg ttctgctgat atggtgacaa atcaaaaaca 180

gttgaatgca ctcatgctg cgctttttaa gacaatgcaa gaccatgctg atgcttggcc 240

tttcaaagaa ccagtggatt ctgcgatgt ccctgattac tatgacatca ttaaggatcc 300

cattgatctg aaggtaattg caaagagggt agagtcggaa cagtattacg tgacattgga 360

tatgtttgtt gcggatgca gacggatgtt taacaattgt agaacttaca actccccga 420

tacnattaa tacaatggt gcnaaccaag tttggaacca ancttccatn gaaagtncaa 480

ancaggtcnc caaatcgggg gccaaaaccc aattagaana 520

<210> 3490

<211> 474

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-089-Q1-E1-A5

<400> 3490

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acgcntccgn ggacgcgtgg gcacctacca tctcctctct cttttcagat tcattcgta 60
agaaagcaga tcgacatggc agctcaagga ggtgattcat atgaggaagc gttggctgct 120
ttgtcgtctt tgatcacgaa acgaagtcgt gctgataaga gcaataaagg ggatcgcttt 180
gagttagtct ttgattatct caagctactt gacctggaag aagacatttt aaagatgaat 240
gttattcatg tcgctggtac caaaggcaag ggatccacat gtacctttac agagtctatt 300
attcgaaact atggcttttcg aactggactc ttcacttcac ctcacctcat tgatgtccgg 360
gaaagatttc gtttggattg gtgtnggcca taanttaana naaatttttg gggaaaattc 420
ctgggtggtg ctataacang gctcaaggga gaaaactaac gaggagatac caat 474
```

<210> 3491
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-G5

<400> 3491

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acgcgtgggc anatanangc agatttctcan atttgcaaac atgacgactc agatcancaa 60
caagagaaaag tttgtagcng acggtgtggt ctacnctgaa ttgaatgagg ttcttacaag 120
agagcnagca tnggatgggt acncnggtgt ngagggttang gttactccta tgaggactga 180
gattatcatc agagctacac gtactcagaa tgttctcggt gacaagggga cganaattan 240
ggaattgact tcccttggtc agaananatt caagtttcca nttgacagtg ttgagcttta 300
tgccgagaag gttaacaaca gaggtctctg tgccatcgct cangctgagt ctttacgtta 360
caagcttctt ggtgggtctc gctgttcgta nggcttgcaa tgggtgtgtg atgtttgtta 420
tggacagt 428
```

<210> 3492
 <211> 437
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-E5

<400> 3492

acgcgtccgc ttctcttccc aaaacattcc gtgaagaaga tctttttaaa gacctaatt 60
 ttctagatca agaaccgggt tcaagatcac ctaaaccggg atccgaagct cctgatcaag 120
 atccgggttc gaccgggtca agaacacaaa atatgatacc gccgatgtgg gcactagcgc 180
 caacgccagc ctccacaaac ggaggtagtg ctttttggat gttaccagtc ggaggaggag 240
 gaggtccggc taacgttcag gatccatcac agcacatgtg ggcgtttaat ccgggtcatt 300
 acccgggtcg aatcgggtcg gttcagctag ggtctatgtt agtgggaggt caacagttag 360
 ggtaggtgt tgcagaaaat aacaatttgg ggctattttc cggcggagga gganacgggtg 420
 gncgggttgg ccccgga 437

<210> 3493
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-E6

<400> 3493

ctgtaacca acccaactcaa acgaaatnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnncaa tcggaactct cgattcgctt tcttctccgt 120
 tcttctgtgg cggaccgggt ttgtggtttt ttatttgaac attcccgatc ttgccctgag 180
 ttccacgatc agtttcttta aaccctangt ttacacaag cattctgttt ctccagatta 240
 tcncanactc tttcgttcta ntctttgtag ttttgtaaaa ggtatttcgg tagatttagg 300
 gtttgtctgt gtctagtttt cgagatcnag agagatttgt gatgaatact aanagaggaa 360
 gatatccacc ggggtgttga acnggtcatg gtgcgcctcc gaagccagat tatcatcaat 420
 cgtanc 426

<210> 3494
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-E7

<400> 3494

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acgcgtccgc ccacgcgtcc gcttgcata ntcgcatacc tgagaaaggn tacggaggaa 60
ngttccctta aggnctggcc gtncgcatac tccaactgat angctgcaaa nnanaaaatt 120
tnattcctac antgctanga aagagctatt caaggcagaa tcaaaatatt ggaatgaaat 180
aattgggggc tatgttcgcg ccttaaaatg ggaaaaagat gaaactaaga aatgttttgg 240
acatgaganc aggctttggc ggatttgcag ctgcactaaa tgatcataaa ctcnattgct 300
gggttctaag cgtggttcct gtcagtgggc ctaacacatt gcctgtcant tatgaccgtg 360
gactgttang agtgatgcac gattggtgtg aaccatttga tacataccca cngacatatg 420
acttct 426
```

<210> 3495
 <211> 520
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-F1

<400> 3495

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ngttacgcct gcttttaccg agnccnanaa tccccganaa cgaccacgc gctccgcca 60
cgcgtaagc ggacgcgtgg gctaaagcga tctctgcaaa tctctcgcga ctctctcttt 120
caagatgcaa atcttcgtga aaacactcac tggcaagact atcactctcg aggttgagag 180
ctctgacacc atcgacaatg ttaaggcaaa gattcaggac aaggaaggca ttctccgga 240
tcagcaaaag attaatatc gccggtaaac agctagaaga tggccgtacc ttggccgatt 300
acaacattca gaaagaatca acccttcatt ggttctcccg tttaaagaag tgggtatgca 360
aatcctttgt caagaatccn gactngnaaa gaacaataac ttggganggt gaagaactcc 420
tgacactaat tgacaacgtt caaagcaana gattcaagga caaaggaaag gaatcccctc 480
ccggatnaag caagagnact ttatcctttt gccgggttaa 520
```

<210> 3496
 <211> 469

667430 "Arabidopsis thaliana"

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F5

<400> 3496

attccccgggt ccgacccacg cgccgaanc tctcacacaa ccactgttct ccgtcacggg 60
ggcgctttat tctctcatcg gagcgctca ccggtgggtan acggtgtcgt tgttcctctc 120
cnaaaacntc catcatnnac catctcttta cacagagctc taatcaaaat cttcgagaga 180
tggggcanag tatgagctgt ggaagtcgac cggagcacgg aatattcgcc tctgtacagt 240
gcggcgatat catcactatc cgctcgtgtga tggcgacgga gcctagtctg ttgaatcaaa 300
ntactcctta tgatcgtcac tctgttcttc aatgtcgtcg ctgctaaatg gtcangatng 360
aagattttgt cattgctttt ggaacgattt acgaaatcca agatttggtt gnacngtca 420
cnaagcaaga ctccgtttta tgtttgggct gcnatgtatt ggaaaaatc 469

<210> 3497
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F6

<400> 3497

acgcgtccgc ccacnctcc gccacgcgt ccgncacgc gtccgcccac gcntctgctc 60
tcgatttgte ttcttctctc agtttctcgc ttgttctgct aaagatcgaa actttccggc 120
gtctattgct ttgcactat tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnngatatg ttnaactacg ggaacancan ngtgggagat 300
canngatgg catgattttt tcaannaggt tcaantgatt gacatacagt atgataagct 360
agacaanctt cnaaagaaac tgcangcttc ncatgangag tcaaaatctg tgaccaaagc 420
tctgcatg a 431

<210> 3498
<211> 426

<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-G1
 <400> 3500
 tgttaccctg cctttaccgg ncccanaatt cccggancga cccacgcgtc cgcccacgcg 60
 tcagattcct taaccaacaa tattacaaat aagctcctat cttctttctt tcttttagag 120
 atcttgnaat ctctcntag ttaatcttct antgtaaaac taanatcaan agtctaaatg 180
 gagattaacg gggcacacaa gagcancgga ggaggagtgg acgctatgtt atgcggcgga 240
 gacatcanga cacagaacat ggtgatnaac gcggaggatt ctctcaactg gggagctgca 300
 tcggagcaaa tgaaacggta nccatttggg tgnaattgaa aanaatggnt tgccgaantt 360
 aangaaacca atttgттаат ccctgggggg gtgagactcc tgaaccaatt gggacaaagt 420
 tggtcgcaa ttctcaaact aattgggtaa acaatgttga aaaggtggag ctatccggag 480
 aacagctaaa agcccngtgg tgaaa 505

<210> 3501
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-G11
 <400> 3501
 caagagacat ttcatgaact gttctcttat catttgtatc tagcctcgca tcaaacattt 60
 caatgggttg aatcatgtta cggatcgatc gtcgaacca attgactaga tcccctcctt 120
 gctccagcgg ttgaactggg ggctttctctg ttattagctc cagaagcaca actccaaagc 180
 tatagatatc acatttctct gtcaccttca tcgtgtaagc atattctgaa acacagcaaa 240
 acatcaatta gatatgttag ataagcgatt gtgggaagaa agaaaactgt gatgttttac 300
 tcacctggag cgatgtatcc gtaagacca gcaacaagct gacatggact ttgagtaaga 360
 gaagatnaat caacttagcc aggccaaaat ctccaacatg agccttgaaa cgttcanca 419

<210> 3502
 <211> 426

```

<212>      DNA
<213>      Arabidopsis thaliana

<223>      unsure at all n locations
<223>      Clone ID: LIB22-088-Q1-E1-G12

<400>      3502

cgtttttgca aacgaacatc agtctgaatg cgatcaagat cgtcccgggg aaatacagtt   60
ctctcaccga tcatcagttt cgtgcgccgt atcgaattag gtgcgccgcc gcttcacctg   120
ggaaaaaacg gtataacatc gctctgcttc ccggagacgg tatcgggtcca gaagttatct   180
ctgttgctaa gaatgtgctt cagaaagctg gatctctcga aggactggag tttgatttca   240
aggagatgcc tgtcggagga gcagccttgg atttggttgg agttccattg ccggaggaaa   300
ctttcacggc tgcaaaacta tctgatgcca ttcttcttgg agctattgga gggtaaaaat   360
gggacaaaaga atgagaaaca tctgagacct gagatgggct ctgttttacc ttanaagaaa   420
tttcaa                                           426

```

```

<210>      3503
<211>      440
<212>      DNA
<213>      Arabidopsis thaliana

<223>      unsure at all n locations
<223>      Clone ID: LIB22-088-Q1-E1-G2

<400>      3503

cggccaagnc acagatctcc gtggccatct ctctctnnnn nnnnnnnnnn nnnnnnnnnn   60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn   120
nnnncgtata aatcctcccc attgttgagt taattagttc ttgtaaacc accatgacgtttt   180
ccgtcaaagc tgaaatggaa gttctcatgg tctcagatag ccaactgttg tttctgtcatt   240
gttctcgttt ccttggttca tctgtttctt ggtcctgtag tgccttcttt tgattctatt   300
actgtaagac aagctcagaa tctttgtgga ccaagtaatg aatcaatctc acaagtgact   360
aagaattcaa gtcaatccct tgttgttggt gcctttggat tgccgctttc ctggctgact   420
cacacggtgc aattagttta                                           440

```

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<210>      3504
<211>      487

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<212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-G3
 <400> 3504

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accggnccaa aaattcccg aatcnacca cgcgtccga cgctctcaat tttgtgggat   60
tgtttcttta aaaggggttc ttanggttta gtgaagctat agatttcaat ttcatacata  120
gttaacgtat agaaggaatc ttgggttgat caatggaagg ttgtccaaga aacagagaaaa  180
tcggtccaaa acttcttgat ttgattccac aangaaggaa atggtacca gaagacaaga  240
acaacacaga tcacgagaag aaacttgagc taangcttgg accacccggt ggtgatgaag  300
aagatcattc aagcaatcaa gaaagaanga acachagaga taagaaacat caaagaanga  360
aacagaagac aaatctttcc actgttttaa tggcaatcac ttctctcctt ccaacaaaaa  420
ccacttctgt tcctcacatc tcacaagaaa aagaactgct cctgggtcca gtggtggggt  480
ggcctcc                                          487
  
```

<210> 3505
 <211> 501
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-E3
 <400> 3505

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tgttacgctt gcctttaccg gncnanaat tcccggatcg acccacgcgt ccgcangaaa   60
tcttcacttt ctctctagaa aaaattggna agctgactcg ataanagact ctctttttct  120
tcttcgtcct gcanatgggc gatcgaggat caagagaaca caatccgtga aatcaaacct  180
aagaacaaga agaatcatgg gagctggtgg tccggaggaa gaggagaacc ggtggccgcc  240
atggttgaaa cctttgctta aagagcaatt ctttgttcat tgcaagtttc atgganactc  300
tcataagant gaatgcanta ngtnntgctt anactgcacc aatggcccac tttgcnctct  360
ttgtcttgct catcacaagg atnatccgca ccattcanat aagggagatt cttcttatca  420
tgatgttata acgggtgaat ggagatacaa nagtaacctt ganatnangg tggggattca  480
aacctaaggt gttaantaat g                                          501
  
```

<210> 3506
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-088-Q1-E1-B5

 <400> 3506

 tttttcaaatt tgctcgtctaa agtctctctaaa accaccatcg aagtcttgac agagagaatt 60
 cgaatcggac agagaatttc ttccgtagtt tttcttgtaa gcgaaaaaga agtttagtta 120
 gctcgtgtga gagaaggggtg taatgagctg ttttggttgg tgtgggagtg aggattttcg 180
 caacgctact gacactggcc caaggccagc gcataacca gcaggttaca atggaggcca 240
 ctaccaaaga gctgatccac ccatgaacca gctgttatt cccatgcagc ctatttctgt 300
 accagccatt ccagtggatg agctgagaga tataactgat aactatgggtt caaagacctt 360
 gatcggcgaa gggttcctaa ggaagaatgt ttttaagggtg tcttaaaagc cgtggtgcag 420
 ctgccatc 428

<210> 3507
 <211> 457
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-B8

 <400> 3507

 acgcgtccgc aacaactgtg ttatctctat gaacagttcc tttgatgaag aacacaaagt 60
 gaaagttgct gtctttataa ccaggatttg gtaattccca ttgtttcatg ggcaattctt 120
 gccgtggatc tttcaaggac aaactcgacg aaggcgataa caataagcct gaagattact 180
 ctaaaacctc taccaccaac ttgtcttcta attccgacca ttcaccgaac gctgcagaca 240
 tcattgctca agaattctcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna gatccagctc 300
 ttgttattcc ctttaagaga accaatcatg agggcggttaa cccagacaat caaagcttac 360
 taagttcctt ggtcataaag acaccaaaca attcgtggat aatccnatac ccctaancgg 420
 caagcctang gtcaaagggg caatttggaa ccaactt 457

<210> 3508
 <211> 448
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-B9

 <400> 3508

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 ttgattgagt catcatcttc ttggacaaga agtgggtccga accaaaacca agccagagaa 120
 tgaatctctc aggggatcga acaactctaa agcgctactc gtcgctttca acacttgtgg 180
 ctcatctctt tggcatctta gctgttggtc tgatgctaata ttggcttctc cactaccgtg 240
 aaggcatcga gtatggctcc gacaaccccc ttaagggtttt aaatgtgcac ccatttctca 300
 tgtactgtgg atttctcttc ctctgtgggcc aagcaatgat gacttacaaa acggcgtacg 360
 cgtcgcacca agttcaagaa aatgggtcac ggtgggcttc acttaatang cttaattcta 420
 ngtaatgtcc ggatccgggc ccgccttt 448

<210> 3509
 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-C12

 <400> 3509

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 gcgtcagttg ccccantgac anacataatc cggcagggtc gtagcacact tgtgacgact 120
 cttcagatgt tcaaaattct cgggtctgaac tgtctcgcca cagcatatgt cctaagtgtt 180
 atgtacttag acgggtgtaaa gcttggtgat gtccaggcta caatcancgg agtggttaaca 240
 gntgcgtttt tcctcttcat ttctcatgcc cgaccgcttc aaacctctc tgcagaacgg 300
 cccacccga gtgtcttctc cgtgtacctc ttctctctc tgataggaca gtttgctggt 360
 cacttgacct tcttgggtcta ctctgtgaag gaagctgaga aacacatgcc cgacga 416

<210> 3510

<211> 481
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-C3

 <400> 3510

 aactgttacg cagcctctaa gcggnccann aattcccgnn tcgaccacg cntccgtctc 60
 tcccttcttc tcgactctct gactcaatca acctctataa atgtaaaacg agtcagaagg 120
 aacacagacg cacatcaaga anttaaata ctaaaatgga ttaccccatg aagaaggtaa 180
 aaatcttttt caactacctc atggcgcac gcttcaanct ctgcttctta ccattaangg 240
 ntgctanagc cgtggangcg tcncgtcggt ccacacaaga tctccaaaac ttttacctct 300
 atttacaang caaccanaca tctntaacca tgttcttctt ttacctcgct ctcgggtcga 360
 ctcttacct catgaccggg gccaaaaccg ttttaacccg ttgacttttag ctgctaactc 420
 ccaacgtcgc atctcaaagc cagcanccaa gangatnatg caccacgtaa aggcttgtnc 480
 g 481

<210> 3511
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-C9

 <400> 3511

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 caggaaacat gcctcctcag aagattgaaa ctggatcatg cgacactatt catgatgtgg 120
 tcatggatta ctatggaaag cgagtagcaa ctgcctcgct tgactgcacg atcaagataa 180
 ccggagtaag caacagcggg ggatctcagc atctagctac ctttaaccggg catcgaggct 240
 ctgtctggca agtcgcttgg ggcacccaa agtttggttc acttctcgct tcatgttctt 300
 atgatgggca aattatatta tgggaaagaa ggtaaccaa accaatggac acaagctcat 360
 gtcttcacaa gaccacaaag tatctgtcaa ctctatcgcn tgggctcctc atgaacttgg 420
 actcccctta accttgcgga gcatcctgat ggga 454

<210> 3512
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-088-Q1-E1-D12

 <400> 3512

 caaataaaca ttaaacccaa atgatatatt ttggtagatc aatcgacaat cattatacaa 60
 caatgatgac aaaaacattg gagattgatt tgagatcagc agaagggctt aagctaaacc 120
 ggagacccat caagaaaaag actttcgccg tcgtaaaaat cgacgagaaa tgtcgaaaat 180
 ctaatcttga cgaatcgaga agaagcaatc ctacatggaa ctataaatca gagatgcccc 240
 tcaatggtaa tgaacagttt atcttcattg aggtatttta tcgaacaggt tctgggcatg 300
 ataaaaaat cggagaagct aaaatcccaa cgaatgattt catgggaagg tattcacctg 360
 aaggtcactt aaacttcttg agctatagat tgagagatga gtttggtgat aagtgtggga 420

<210> 3513
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-D2

 <400> 3513

 taccggncca aagattcccg aatcgacca cgcctccggn ggacgcgtgg gtgttggtat 60
 accaattctt acgtcaacgt caatgaagaa acgactccat atttacgaat aaaaaactgt 120
 agtagatctg tactctccct ttttctttgt agagaagaag agaactgtga aagaagatga 180
 agattgagga ggatctaggt ttcacaaaca tactcaaacg agcaacaaag cttctatgtg 240
 gtaacatcaa tcttggtctc ttcctcttcc ttgctctct cccctcttt tgtttcttga 300
 tcttcttcga gctttcactc caaaccactg tctcactcgc ttctcaatan ctcgttccga 360
 caactcacta attgggatta cnactacgtt cctcaaagat gntccgtct tggagaaatc 420
 cggattccaa tggcntatcc agacatttct acnctacntg gttcccgta nggggctcat 480
 agac 484

<210> 3514
 <211> 500
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-D3

 <400> 3514

 ttctacgctt gncctttacc gggcccaaaa attcccggat cgacccacgc gtccgnaacg 60
 ancgaccagc catggacatt ggnnggtccaa ccaatatccg ccacgtggct cacgttacct 120
 tcgacgcgtt cgatggcttc ctcggccttc cctctgantt cgagcctgat gtccccanaa 180
 aagctcccaa tgcaagtgca acggtgtttg gggatcgcac agagtcaatg cacttatcat 240
 acgactcgag agggaaactgt gttcctgtga tactgttgct attgcaanag ccngctttaa 300
 gatcaaagag gcttgcaagc aanaangatt attcagaatc actgggagaa aaaaaccnan 360
 ggaanaattt tttaagggaa cagcttaata anagggatna tacctgatgg ggattgatgt 420
 ccantgttta accgggtcct aataaaggct tggttcaaag aanctgccc nagaagggtac 480
 tggattctcc tgccatccgn 500

<210> 3515
 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-D5

 <400> 3515

 atctgaacaa agttgggttt tttattggta ccagaatct caattctcct tctttccttc 60
 tgggtanagg aaaagtctcg ccttttttta tatttatcca atcgncncng ttcattgatt 120
 ccccantagg attgtagttt ttggttattg ggaaaattga gtaaaggagg agatggggtg 180
 tttctcgtgt tttgattcna gtgatgacga gaagctgaat ccagttgatg aatctaata 240
 tgggtcaagaa gaancaatca caaccgacag tatccaataa catatcngga ctcncttcan 300
 gtgggganaa gcttagctca nagaccaatg gngggattaa aaaggagct actgcttcca 360
 ngggatggac ntggacaaat tgcngctcat acatttgctt tccgcaagct tgctgcnnga 420
 actatga 427

<210> 3516
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-D7

 <400> 3516

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cttagcaaaa ttcttctgaa tgaataatcg gcgattatgt cnttgaaaaa cgatgcgagt   60
agtagccacg acggtggaag caacagagaa agcgtaatch atgatcatgg ccgccgtaaa  120
agcacttgcg gctactgtaa atccccagct cgggccanta tctctcacgg tttatnagca  180
cagactctta ccgtttatga ctaccaagct cttattgacc gatgctggag aagatctggt  240
acttatcttt acaaacatga gatggataaa acgtgttgcc ctccttatac gatacgtttg  300
aaagcaagtg attttgttcc tactaaagag cacnancgag tttctagaaa actagaaagg  360
ttcttgatg gcaaactaaa tgtgcagccc agggaaacaaa nanggtgctt cttctccggg  420
ngatgt                                           426
  
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<210> 3517
 <211> 479
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-D9

 <400> 3517

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cttttaccg nccggtaccg ctcaaagaat tccnngnccg acccagcgt ccggtttttg   60
tttcttcttc tttcaaaatc tcaagcaaaa gaaaaaatgg agctattcac aaaaggtaac  120
aacgttaagt tacgtagcca cctagataag tttttagtcg ccgacgatga ccaagaaacc  180
atccgtcaaa gccgtaaagg agatgcacgg cgtgccgttt ggacggtgga gcccgtcgtc  240
gataaaccta atctgataag gttaaagagc agccacggca cgtacttaac ggcgagcaac  300
aaaccgttat tgtaggtat gaccggtgag aaagtgactc aaacggcgtc gtttaacaag  360
ctgatggatt ggcaaacgca gtgggaaccg gagcgagatg ggtttcaggt gaaagctaaa  420
atccttggtt gcggttaagt ggatgaaggc taacggtggn aaccgccgt tggaaaaac   479
  
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<210> 3518
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-E10

 <400> 3518

 tgacatctcc gtgcaatcgg gagagaactt tttttgtggt ggtgggtgggt ggctttcgta 60
 catgcaggat cagtatataa atcacattat gaatgaaaca ggagcaactg ttgtattaag 120
 agggcggtgt tcaggaagcc ttgagaatca acatggagat gaagcacagc taccgctgca 180
 tctattatta tccggcagca acccaaagag catcgacgat gcaaaacgtt tagctgagaa 240
 tcttatggat acaatcagtg tagaatttgg ggcttcaagg gtttcctcaa gcaaggtgta 300
 tgggtgcagta ccaccaccac agcaactgat ttctggagct ccgggttctg accaggagaa 360
 ccaaaatttg atttcaacgt atggtttgat gacatcnata nccatcacia gcaacaacat 420
 a 421

<210> 3519
 <211> 436
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-E2

 <400> 3519

 cactttcatc tccaccacca ccatggatga tctctccaag cttctcttct tctctctct 60
 cactatctcc attaccaccg cattaccoga taaaccggg tcgggtcaaa taaactcaaa 120
 ctccgtctct gttgctcttc ttgantcaca ctacacagaa ctagcagagc tcgtcgaaaa 180
 agctcttctt ctccaaacct tagaagaagc tggttggtcaa cacaacatca caatctttgc 240
 tctctgtaac gatgccttag aaaaaaaten tgatcctgaa ttcaaattct tcttactcca 300
 accgaaaaaa ctcaaattcat tacaattctt attaattgtt acattcttcc aaaaagaatc 360
 acttctccac aattctctct cgcgggtcgt aagcaaccgt tatctctcna acgacnactc 420
 catttcacca aangga 436

<210> 3520
 <211> 490
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-088-Q1-E1-B3

 <400> 3520

aacgttacct gcctttacct gccaanattc gcggaacgac ccacgcgncc gagtgcagca 60
 cagagaagcc tgccactcga tattgacctt tctaaccgac atttttgacc tcgagaagtc 120
 tgtgaatgaa gaacagttcg tacggatcag ggacaatata attattcctc ggggagctac 180
 aatcaccaga atattgatng cctcattagc tggggcactt cccagttctc ggctagatac 240
 ggtaacatat tcgctgctag ctctgacaag aacatacagg ttacaagcag tgagttgggc 300
 taaggaaagt gtaagcctga tacctcgaac agccttgaca ganaccgaat ctaccaagtt 360
 cttacaagca ttgtccgata ttgcttatgg agcaaagtgt aattctctga taggacangt 420
 tgaggagctc tcanatgttt gtccgacgta accgtactgt tcaagaacct tgttcaagna 480
 agctttgaaa 490

<210> 3521
 <211> 423
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-086-Q1-E1-H8

 <400> 3521

gcacccggtt cataagaagc aagctttctg ttatgggttt gttgcgttat tctaactctc 60
 gcgtcccagc ttctgggtgat cctcccgtc ttccacctgg agagcttggt tgggtccatga 120
 gacaagctag aaccttcaga tggaacttaa cagcaaagtc agctagacca aaccctcaag 180
 gatctttcca ctatggaatg atcagtccaa caaagacatt tgtcttctca aattcagctc 240
 ctttgattaa tgggaagcaa agatatgcag tcaatggagt ctcttatgtg aaatcagaga 300
 cgctcttaa actcgctgat cactttggca tctcaggagt tttcaagcac caatgccatt 360
 caaagcgtcc catcaaactc tccgccaac agttgcaaca tcagttgttc aaacatctca 420

cca

423

<210> 3522
<211> 220
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A1

<400> 3522

ngtaccgggtc acaaattccc gggccgaccc acgcgtccng gtgtgtgtct gtgtggaaag 60
tgtcttgttg ttgtgataaa accattttta aaagggtata tatattccaa tggtagcgga 120
tgtagtagta acatataaac ttttgtcatg gtttggtttc agacattact ttatagagtg 180
aaaatgtatt gtatgttttt attaaaaaaa aaaaaaaagg 220

<210> 3523
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A12

<400> 3523

aaacaaagat gggttttgaca aaaaccgcaa cgaatgatga atctgtctgc accatgttcg 60
gatctcgcta tgttcgcaact acacttccca agtatgagat tggtgagaat tcgataccga 120
angacgctgc gtatcagatc ataaaagatg agctgatgct tgatggtaac ccaaggctta 180
acctagcttc ttttgtgact acatggatgg aaccagagtg tgacaaactc atcatggant 240
ctatcaatan gaactacgtt gatatggatg agtaccctgt cacaactgag ctccagaacc 300
gatgtgtana cattatatct cgactgttca ntgcgccact cgatgnatct gatacngcng 360
tnggagtang ggacagttgg ntcntcana agncatcagg ttagccggnt ttggcttcaa 420
g 421

<210> 3524
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A6

<400> 3524

cgccgcncag gaaacgggtca agaantcccg ggncgaccca cgcgtccncc cacgcgtccg 60
gttatagggc cgtgcttctt gatgctcaga aacaaactga gccatttgta tattattgtg 120
gtgtttttct tgtccccaag actcgtgctc atgagtggct gttctgttca gaagaaggac 180
agtggcaggt tgtcgagagt tctcaggccg ctcgtctcat aatgggtttt ctcgacagta 240
gccatagtgg agccaacatg gaggatatcc agaatgattt atctccaatg gtgacacaac 300
tagctcccag aaatgatgat gaagctcgca ttccgtatat gatggcaagt gatgggataa 360
aaaagcgtga tactgtccac gaggttacat ctcctatgac tgggaaagtg gttgttgaag 420
atgtggttta tgaaagcgct cctagtaatt tagaagactt gtct 464

<210> 3525
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A9

<400> 3525

tnactgtctc cctggtcgta caagtccgan attcccnngt cgaccacgc gtccgctcat 60
tctccctct ctctctactt ctagtttttt ttttgtgtg atgatgaaca aagacatgtt 120
acttcaccag catcagcaac cacaacaaga cgagaatatg tcgaatctaa catcagcttc 180
cggggatcaa gcaagtgtct cttcaggaaa tataactgaa gcaagtgggt ctaattactt 240
ccctnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ttagttgttc cagattcgca 300
gactcaaaag aagaggagaa accaaccagg gaatccagac ccagaatcag aagtgatagc 360
tctatcacca aaaacactaa tggcaacaaa caagattcgt gtgtgaaatc tgcaacaaag 420
gttttcaaaa gaagaccaga atctacagct tcatangaaa gaaggtcaca atctgccatg 480
ggaagctgaa acaaagattc acaaagaan tggttaggg 519

<210> 3526
<211> 506
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-087-Q1-E1-B11

<400> 3526

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ctgccctaca atccganatc ccnggtcgac ccacgcgtcc ggaaacagca aatctgaggt 60
tttagaaaat gggatcttct tctgggcaaa gtggatacga tctgtctttt aagatcttgt 120
tgattggtga ttctggtggt ggtaaaagca gtttgcttgt cagcttcatt tctagctccg 180
ttgaagatct tgctcctact attggtggtg atttcaagat caaacaattg acagtaggag 240
gcaaaaggct aaaactcaca atctgggaca cagctggaca ggaacggttt agaactga 300
caagctctta ctacagaggc gcccaaggaa tcattctccg tttatgatgt gacgagaagg 360
gagacattta caaacttant agatgtgtgg ggtaaggaga ttgagcttta ctccacaaac 420
caaagaatgt gttaaggatg ctcntttggg aacaaagtcc gataagagaa tctgaaanaa 480
gganttagca agagaaagaa agggat 506
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<210> 3527

<211> 463

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-087-Q1-E1-B3

<400> 3527

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attcagacga acctagacac cattccaatg gatgagcagg tccaagaacc tctttctgat 120
caggtgttta tcaacttccg aggagatgag ctgcgcgaaa tctttgtcaa ccatctagag 180
ctgcaattaa gaaacgcagg gatcaacgtc ttcatagaca ctaaagagca gaaagggaga 240
agactacaat atctcttcac aaggatcaag aagtcaaaaa tcgcgcttgc tatcttctcc 300
aagagggtact gtgagtcaaa gtggtgtttg gatgagcttg tgacgatgaa tgaacagatg 360
aaggaaaaga aactcgtggt gattccaatc ttctataacg taagatcgga cgatgtaaaa 420
agagcagcca atccccgatg gagaangcaa tcttgatgga gag 463
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<210> 3528

<211> 468
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-087-Q1-E1-B4

 <400> 3528

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 gaagttgctg gacgaaaaa gactttgttt aggagtcaaa gtgctcaaag tcgttcattt 120
 agagtccttc agagtgaaaa agaggatgag tcacttgagg gagttaatat aaaccgatta 180
 aagaagagcg ttgcttcatt tcaagaagat aagtatccac ctggaaagaa gttttgctca 240
 gatgcatctc ctggtgaac tagcatgaga aagttttccc caccttttgt accaaatgcc 300
 tggagacgac tatctatgcc tgtggagcta aagaaagctc ggttgattt ctctgaggaa 360
 aaagatgatg aagaaacagg gaaatgggaa tctgaaatga ctcatgaacg tgagctgcga 420
 gatgatgatt atgtttctgg tgatgatggg gaaaataatg aggtctta 468

<210> 3529
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-087-Q1-E1-B7

 <400> 3529

 anttcccggg ccgacccacg cgtcnngagg gaagaagatc tcgttccttc taagccatga 60
 atcgtcgtaa tcgtggctct tcttcttctt cttctagggg ttcgaatact tatgggaacc 120
 gccagttctc tgataacccg aggactggat ccggcggcgg agttaatgaa tcctttcaga 180
 gaagatccga tgcaccgcac aaacgaaaca atgaaaaaga cgaatcaaaa cataaagacg 240
 aagatcctgc tgacgtttca ttgattgtag gaacttggtc ttctangtgc ccagttctta 300
 ggtcaattag gtactttccc ttcancaatt catgatcctt ccgtgcatcg gcagttcaga 360
 acaaagaatt atcttttgct aggggttttag agagggaag agtcacaaga gaacgcctgc 420
 gtgatcttgc agtggttgag a 441

<210> 3530

<211> 443
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-087-Q1-E1-B8

 <400> 3530

 tcccggggccc gacccacgcg tcaaagctgc ttcacattgc ctcacaagat cagccacaca 60
 tcgtcccaat ataagacaaa tactgaggct actaagagat gaaaacgaag ccgggaaatg 120
 gattatggaa gangaaggaa atgaagattg cttcgatgac gaggtttacc cgaattccag 180
 cacagaatta cacttaaacc ttgcgatgct tgaggtggaa gacgatgaaa ctgcatcaat 240
 cagcagcatg gagagaagta acancagcct tttttcttct acttgttcat ctagggagct 300
 tcaaacataa ggaattatgc ttttagctaa tagagagggt angtacttan gttanagggt 360
 tgtttcttag tgtatggagt ttacttgatn actttatgtn ggacctgagc tccttgctgt 420
 tatctggacc angaaaattc att 443

<210> 3531
 <211> 520
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-087-Q1-E1-B9

 <400> 3531

 tcgtgtctcc ctggnctcta caagtccggn natcccnngt cgacccacgc gnccgnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nctttctcc actccaagcc tgagcgagac cgaagagtct ttcaacagnt 180
 acgaggaaaa ttaccggnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn gttaanggaa gagtctttcc cccgagaaca atgangacaa 420
 cagagaaaaa angctctaca actcctancg ncntacgggg acagaattng ancgttgaaa 480
 ccancggtnc aagaggttca agcccaacct tggngagAAC 520

<210> 3532
 <211> 470
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-087-Q1-E1-C10

 <400> 3532

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acgcgtccga anaaaaaaaaa aagatccaaa ttacaaccat gccttcggag ttaacaccag   60
aagaacgata ggaactaaaa aactcaatcg ccgagttcca cacataccaa ctcgatccag  120
gaagctgttc atcactccac ggcgaacgaa tccangcgcc tccggaactc gtctgggtcaa  180
tcgtacgacg attcgacaaa ccacaaacat acaaacactt catcaaatcc tgctccgtcg  240
aacaaaactt cgagatgcgc gtcggatgca cgcgcgacgt gatcgtcata agtggattac  300
cggcgaacac atcaacggaa agactcgata tactcgacga cgaacggaga gttaccggga  360
ttcagtatca tccggagggc gaaacatagg ctgacgantt acaaatcccg tttacgacgg  420
tgcacccggt tcgagaaaag agaatcgggt tctgggacgg gtggnttttg           470
  
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<210> 3533
 <211> 462
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-087-Q1-E1-C3

 <400> 3533

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tgantacaan tttgatgagc atgctcctcc aatggctaag aaagtgggtga ntcaagcaca  120
tgtattgata tacaaggcga cagagaaagc tcaaagcttt gtgaaagagg ctcgatccgg  180
tgggtccaaa gctgcgttta actatgctgc aactgagtac aagtttttcg ttgtgaccaa  240
ctcgggttaa gtctgggcna aacttaacca gtataaacca atccatgcaa tgggtgacaa  300
agctttgcct gtggctgcac actttttcaa gtcggtacaa cnatttggtg actgatatna  360
ctaatatggg ttactctttg gttggntatc ttccgttggg tctgttgat gacattgtta  420
aggcttatga aaacganana tgcaaggaga aagaaaagga gg                       462
  
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<210> 3536
 <211> 514
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-F11

<400> 3536

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 gcttgccgtg ctttagtcaa tgtccttgaa gaacaacca cagaagaaat gaaagtagtt 180
 gctatatgtg ctctgcaaaa tctcgtcatg tatagccgat ctaacaaaag agcagttgcc 240
 gaggcaggtg gtgtgcaggt cgtcttggat ctgatcagtt ccagtgatcc tgaaacgtct 300
 gttcaggctg caatgttcgt aaaactactc ttctctaatac acaccgttca agagtacgca 360
 tctagcgaaa ccgtcaagag caataactgg ctgccattga gaaagactta tggggccactg 420
 gaaaccgtga atgatgaata cctaaaaanc cttaaactcc tttgttnaac aacttcccg 480
 gtctaagact acaaangcct ggaacactaa gttt 514

<210> 3537
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-F3

<400> 3537

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 gtcgtcgtct tcgtcggcgg tggagatggt gaatctcaaa gaagcttcga attggtggtc 180
 agacgtaaac gaatctccga tttggcagga tcgtatcttc catgttctcg ctgttctcta 240
 cggaatcggt tccctcggtg ctgtgattca acttgtgaga atacaattga gagttcctga 300
 atatggttgg acgacgcaaa aggtctttca ctttctcaat ttcgttggtta atggagttcg 360
 tgctgtggtg tttgtcttca ggcgaaatgt tcagtttatg caaccagaga ttctgcaaca 420

gtaaccatca acataggaca accaccaaga ccttattatc ttgatcttga tactggtaat 420
 gatctcactt ggcccaatgt gangcncct ggggtccgtg ncttgaaggc cc 472

<210> 3540
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-G3
 <400> 3540

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 agtatctgca ctttggttca tcgagaaaca tctactcgac gaggcttctc ctgtgggtac 120
 agatccatgg atgaagcacg aatcatcatc agcaacagaa tctagctctg actcttggtc 180
 tatcatcttc ggatcatcgt cctcttcttt cgccccaatt gatttctctg aatccgtatg 240
 caaacctgaa atcatcgatc tcgatactcc cagatctatg gaatttctat cgattccatt 300
 tgaatttgac tcagaagttt ctgtttctga ttctgatttt aaaccttcta atcaaatca 360
 aaatcagttt gaaccgggagc ttaaattctca aattcgtaaa acgccaatgg aagaattcgc 420
 cttccaagct naaacaagag tgggntcaaa ttcgcaagct tgaaaacnac caaa 474

<210> 3541
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-G5
 <400> 3541

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 ttgttttcta agttatcttt ttgtatgagt ttcaaagctt atcattatct cactcttctt 120
 ccatagctat gactacttta acgaagattc aagtgtaccc acaagtcttg gagcaccgtc 180
 tcttcttcag agatccgata cgggtcgggt caagattgac ttgtagagaa cgtagtaata 240
 gggtttatgt gcatcgggtg gagaaaaaag ttgaaagaaa gagaaaagtt gagaaattta 300
 agggaaatgg gtcgtgggat tctttgaaat ctgggttttt agggtttagt aaattagggt 360

tcttgtctaa agatgagtat aatcaagaaa gttgaaaacn tggagaaggg tttccctccc 420
ggntgccggg caa 433

<210> 3542
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-086-Q1-E1-G6

<400> 3542

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aacatcatcg tcgccgtcgt tgttttcgct gatgaatctc tccttcaa at ctccgggaat 120
tcaaagctcc tcgagaaact ccgtgtat ttcgtcacgt gtttcctctt cttcttacgc 180
tctcttcctt caatcgtctc tttcgcaa ac cctaattcgt cagtcgtctc tttcgccaac 240
ccttattcat cgaagacgaa gaagaagaat aagatactgg tgatcaacca ttgcgaagaa 300
tcgggaatcg gtcgagcaat ttgggcagtt attgtcagcg atgaatgaaa ttccgggtgag 360
ttctaagaaa gtaccaagtg gttcgatcgt tggcggagag actaatcaac gataatcaag 420
gagaaaactc agtc 434

<210> 3543
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H10

<400> 3543

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tggtggtgat tgtgcttcac ttaccaataa aaacaatcag tctcatcagc cagtcctttt 120
tccctctcca atttgggggtg tacgaggatg agtttgtggt tggcttactt gttgcttata 180
tgtgcctagt aatattcggg ccccggtggg tagccaattt aattagacca tccatcagac 240
ccatagttca caagtgggtt atcactatca gttctttgct caagttgagt gatttcttgc 300
ttggagagcc ccgaaaacac cgtgcaaac ataatatgag acttcggtgt ctagtatttg 360
gcataactga angctctaag gtcaatttgc atggatctca aagcgatacc acctgtgaaa 420

gtccctccgg ggaagatccg gtcagggann gttaannant aagtttgggg ttaagtaaaa 480
tgttggg 487

<210> 3546
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H4

<400> 3546

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atatctacac aagaagataa gaagcttaag attctctcca caaaacaaaa atagttatca 120
gattcacaaa caaagccatc aaatttcacg attgatttgt tcaataagaa atgggaagca 180
aatggcgaaa agcaaaggtg gcttttaggtc tcaatttatg tctctacgtt cccaaaacgc 240
ttgaagattc ttctcctcca agaagatccg acgacgccgt ttcactttct ccggttattg 300
ttcaaagacc atcaacgccg actccttcct cctctgggtc cggattacct cgttccatga 360
gcaaatcctc atcaaagaaa acttgtgcga tatgtttgac ggcgatgaaa gctggggcaa 420
gggcacgcc 429

<210> 3547
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H5

<400> 3547

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atctaaatta cgtatcaaat tccgagcaag atgactattc ttgttgaaca ttttgttcct 120
gattcaagag tggatgaaaa gaaagtata gaggagangg ataataaatt ggtgttggt 180
ggaggttttg nggttccaaa atcnaaggaa actgatgcan tcnatgctcc tganatgaat 240
ttcctgggcc antccttcaa ggantatgag aatggtgaaa gccagagaca acaagggtgtt 300
gangaanttt acaggggtgca caccacatcc accagcccta ngactttgng aagaatatga 360

ggaaagagta tggaaacctt aacaggatgg aaatgngtat gg

402

<210> 3548

<211> 504

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-086-Q1-E1-F10

<400> 3548

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cgcgtcngct catcttctct tccattcaaa tctcacattc cctcttcaca acaacagctt 120
cgtattcgct catcttcttc gctttctgat cttggaaatc gcaggcattg ttcgtctact 180
cgaggatttc aattttggtc atnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnac cggcgggttcg tatttccgac 300
gggaatctaa tcatcaaaaa ccggacgatt ctaaccggtg taccagataa tgtcatcacg 360
acgtcagcat cggaagctgg accggtagaa ggagtcttcg tcggagctgt atttaacaag 420
gaagagagta acacatcgta ccgattgggt acgcttcgca attccccggtt aagtctgggt 480
tccggttaaa ctctggtgga tggc 504

<210> 3549

<211> 422

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-086-Q1-E1-C7

<400> 3549

agntgcccgc cgcccggtaa aggtcanaga attccccggc cgacccangc gtcnactca 60
gtttttggtc gaagttgggtg aagtcgccgc cgggacaact caggttggtta cagatgataa 120
acatgcgaga taatccaaca atgcatgtct tacaagcttc aaagtttcta ttttagctc 180
ttattttgat ccagttgctg tctactcaac tctttgctca aagatctaaa agtccatggc 240
aaacactcac tggagatgct ccccttgctc ttgctcgtgg tgggttttct gggttgttgc 300
cagattcaag tctcgatgct tacagttttg tctcgagac tagtgttcct ggtgctgttc 360

caaaactccaa atttgggggac accgctggan aagnatcttt tagattcatc accaagatna 360
 tactacagag gagcancng gagtttactg gntttatgac atcannaaga agagagacgt 420
 ttaancatct gggcaagctg gtttggangg at 452

<210> 3552
 <211> 483
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-D2
 <400> 3552

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 tctcatagat cagagtcgtc gtcgtcaact tcatcatcac aaaaatctca gctttgnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nccgttactc ttgacaccat 240
 caaccccaag gttatcaa atgtgagtatgc tgtccgtgga gaaattgtca acattgtca 300
 gaaattgcaa gaagatttga agactaaca ggacgcttat ccctttgatg agattatcta 360
 ctgtaatatc gggaatcctc aatctcttgg tcaacagcct ataacattct tcagagaagt 420
 tccttgcttt aagttcctaa acaagcctgg ttgggatgaa aagtgcaca cacggtttgg 480
 ttc 483

<210> 3553
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-D4
 <400> 3553

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 gagaagaggg aagacaaagg gaagagggag gagagagaag gcaccacct ttggccctgg 120
 agagacaaaa gatggtcgaa gagagacaac tctgagatca tcatcatcat cctgcaaaaa 180
 ctaacgagaa atcgattttc aaaaatataa tcaagatcga tttctaggga tattttgatt 240

tctaaatcct ctcaccaaca ttctcttgct tgccctaccc gcttgctggt ttcattccaag 300
 aaacataata atacattggt tgcattataa ggaattcctt tatacagtat caagagatcc 360
 acaagaagct gttagatccc aagagattaa cactgtgatg aaaagggttt tgtgaaaatc 420
 aattttcaaa cctggaaaat gatgatnaag gacccttata tccgacaatt ttcctctttt 480
 cttcngt 487

<210> 3554
 <211> 466
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-D7

<400> 3554
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 atggtatctg aaaaggaaat tgatgcacct ttgcagattg gaattgttcg tgtctttgag 120
 caacaaggta ttgaagctcc tagtgacgat gatgatttta ttgaggtaag atcaaaaagg 180
 caaatgctta atgatcgccg tgaacagaga gaaaaggaaa ttaaagagaa gtctcaggca 240
 gccaaaggcat tccgaaaacc tcgttcaact ttccagaaca atactactgc agccagggtcc 300
 aacagaagcc caccagctag ccgagctgcg aacaataagc agtttaatcc agtctccaac 360
 agacagacgt tagccccaat tggcacacct tcacctaaaa tagattccca tgttgatgaa 420
 aaatccggga acaacaagtc cactcaagga aattatgncc ctccca 466

<210> 3555
 <211> 457
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-D9

<400> 3555
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 caactatcag attgaacatg cagaggatta tgcagaacaa cgcagctgtg ttccgcacgc 180

aagaaacatt ggaagaaggt tgtcagttga ttgacaaggc ctgggaaagt tttggggacg 240
tccaggtgaa agatcggagt atgatatgga actcggattt gatagagaca ttggaactgg 300
agaacctttt gataaacgca tccataacaa tgcattcagc aagaagcacg aaaggaaagc 360
aagaggagca catgctcggg aaaacttcac gaaanngana aggattggag aatggggtga 420
agcatacatt ggggatattg ggaaaattga gaaattg 457

<210> 3556
<211> 476
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E10
<400> 3556

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ctactagatg aagacgatga cgcaattaaa tattgcggtt gtggtttag tagacggttct 120
tattggaatg ttgagatcat cggaggctca acttcaaag aatttctacg cgaagagctg 180
tccaaacgca gagaaaatca tttcagatca tattcaaaat catatccaca atggtccttc 240
tcttgacgct cctctcatcc gaatgcactt ccatgattgc ttcgtaggg gatgtgacgg 300
atcgggtgttg ataaattcaa catctggtaa cgcaagagaa gaagatgcac caccgaatcc 360
taacacttna aaggatccgg gttccgtgga aagggtttta gggccctcct tgaaaaaatt 420
gtgtcccaaa gactggttcc ttgcgccaga taacaattgg ctttgacctg gctaaa 476

<210> 3557
<211> 480
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E2
<400> 3557

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accatgggtt cgaaaccgct attctcccta ttgcttctca cggttgcatt ggttgtgttt 120
caaaccggaa cccttgtcaa cgctgaagat tccgagcctt cgagttcaac gagaaagcct 180

ctggtgaaga ttgtgaaagg taaaaaatta tgcgacaaag gatgggaatg caaaggatgg 240
 tccgagtatt gttgcaacca tacaatctcc gatttttttg agacatatca attcgagaat 300
 ctattctcta agcgtaacag tccaagtggc tcacgccgtc ggcttttggg attaccgatc 360
 attcattact gcggctgccg agtaccaacc tcttggtttc ggtactgctg gtgagaaact 420
 tcaangggat gaaggaagtc gctgcgtttc ctggccacgt tgggaacaaa acctcatgcn 480

<210> 3558
 <211> 473
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-E3

<400> 3558

gtnccggtca aagaattaac gggncgaccc acgcgtccnc ggacncgtgg ggtgttactc 60
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 gagtttaata gattcaccat tgttatgact gcttttggaa atactgggaa tcttttgtta 180
 gctattgtta gtcggtgtg tcacacgaag acgaaccctt ttggaccgaa ttgtaactcg 240
 agagggggtt cgtatgtatc gtttgcgcaa tgggttgctg tgattcttgt ttatactgtt 300
 gtgtatcata tgatggagcc gcctttggag tactatgagg tcgttgagga agaaggggtt 360
 gagatagagg agatnaatgt ggagaatcat gatgctanta agccccctcc aattgaaact 420
 gaatnggcaa aggaattnan ggacaanngn ncagaacaat tgcaagaaca cct 473

<210> 3559
 <211> 439
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-E5

<400> 3559

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 tgttggaatg gcagttggaa aggacagatt caaggaagat gctagacagg tcatggaagt 180

gctaattgtca ttgcaagggt ctcagatgga ggcagacgat ccaataacaa gttacatgtt 240
acaggcatgg gctaggcttt gcaagtgtct aggtcaagat ttcctcccat acatgaagg 300
tgtgatgcct cctttgcttc agtcagctca acttaagcca gatgtaacaa ttacatctgc 360
tgattcagaa gatgaagcan angantccga tgatgaaagc atggagaaca ataaccctgg 420
gggaacaaaa gaataagg 439

<210> 3560
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E6

<400> 3560

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cctagattgg aattagattc tgggttcttg ggctaaagg tttctcatct ccttcgaatc 180
atccttttag ggagcaagac gatgagtaga aaccctttcc tggatcctac tttcaagaa 240
attcttcaag tgattaaacc cacacgagca gatagggata cgaggatcac agtcattgat 300
cagttgcgtg acgtcttaca atccgtagaa tgtttaagaa ggtgctactg ttcaaccatt 360
tggatctttg tgtcaaactc cttcacacga tggggagact tagatatctc tgttgactta 420
ttcagcgggt cttccatctt gttcactgga aagaagcaga aacaaacttt actcggacat 480

<210> 3561
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-C5

<400> 3561

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acgagtatgg gttttactgg cacttctacc aggatgggaa aatcgaagct gaagtaaac 120
ttactgggtat cctcagttta ggagctctgc agccaggatga aactcgaaag tacggtacta 180

ctattgctcc tgggttgat gcaccagtcc atcaacattt ctttatcgct cgcattgata 240
 tgtctgttga ctgtaaacct gctgaagctt ttaatcaggt agttgaggta aatgttagag 300
 ttgacgancg aggtgagaac aatgtccaca acaatgcgtt ttatgcgna agagaaatta 360
 cttaaattct gaagnaattg gcgaancctt actgtggacc nccttttggg cncctattgg 420
 gtttttagg 429

<210> 3562
 <211> 486
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-086-Q1-E1-F1

<400> 3562
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 gattcgatcc acactcttaa aatcccaaag atctctctga ttttgaaatt cgattcttcc 180
 ccagatcaac ttgtgaattt ttccacaatt ttggttcattg attttgattt cgtgaaggac 240
 ttatggattc acacccttcc ctaatgggaa ggtccattac caattcgaac cgatcgagct 300
 tagatcttgg tcgtccttct tcgtcttctt catcttctcc ttcaccgtta accaaatcga 360
 tctccgatgc aagtagtcaa agtctctctt cgattcttaa caatccacac ngngngnaat 420
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 tagccc 486

<210> 3563
 <211> 412
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-A9

<400> 3563
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cggattagca gccgctaaga acttagttca tcacaacccg accgtattcg aagcctcgga 180
 ttcagtcgga ggtgttttga ggagctgcac ttacgagacg actaaattac aatcggtcgc 240
 agtcgattac gagttctccg actttccatg gcccaataat agagatgaca caactttccc 300
 accttacctt gagatattag attacttgga atcttatgcc aaacattttg atcttctcaa 360
 attcaatgaa gtttggctct aaagncatcc gaagtaaggg tcancggtga tg 412

<210> 3564
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-B10

<400> 3564

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 aagtcttctc tacttcacca taaaaaatgc ttgcgcacaa gtctcttctc tcctttacca 120
 cccaatgggc tacactaatg ccctctccgt ctacttttct cgctctcgc ccccggtggac 180
 cggccaagat ctcggcgcgtg gcagcaccag tgaggccggc tctaaaacac caaaacaaaa 240
 tccacaccat gccaccggag aaaatggaga tattcaaatc tttagatgga tgggccaagg 300
 atcaaattct gcctcttctc aaaccggtt accaatgttg gcaaccgcgt tctttcttac 360
 ccgacccggc cttacccttc tccgagttta ccgaccaagt tcgtgagctg aagggaaaga 420
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<210> 3565
 <211> 413
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-B11

<400> 3565

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 tactaacggt gacggagggt ttagtttccc taaaggaccg gtgatgccga agataacgac 180

tgaagaagag gtagaaagcg ctacgtttaa gatgtggttc ataggtcgtg ggtacagcga 300
 atagagtcta gcttcacaag gagaaacaaa gcctgacttg gaaatcatta caagaatttc 360
 aggacctgag attggatata taaccacccc gattacactt gttcaatgcg gtttgatant 420
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<210> 3568
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3568

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 cttcttcgtc ttctctcttc ttccccggta ctactcttcg gagattctcc gccgtttcac 180
 tcccttctcc tgctctccct cgccttcgtg tttcatgtca agcctcctcc gtcacttcgc 240
 cttcttctcc ttccgatgtc aaaggaaaat ctgacctgaa agactttctg gcaatagatg 300
 attttgacac agccaccatt aaaacgattt tagacaaggc ttcagagggt aaggccttgc 360
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 gcaaaaactt tcaatgaagg acccggtttt cgttgana 458

<210> 3569
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-B9
 <400> 3569

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 tcaccgctcc caaagctgat tccaccgtcg ttgaaccgag gaagatagct ctgatcaccg 180
 gaatcaccgg ccaggacgga tcatactga cggagttcct tctcgaaaaa ggctacgaag 240

ttcatggtct gatccgtcga tcatcgaatt tcaac,ccca gcgaatcaac catatctaca 300
 tcgatccaca caatgtcaac aaagctctga tgaaactcca ctacgccgat ctcaccgacg 360
 cttcctctct ccgtcgttgg atcgatgtga tcaaacctga cgaagtttat aacctanctg 420
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<210> 3570
 <211> 452
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-C10
 <400> 3570

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 tgtgagaatg tggttaaagt tcttcagtcg tcttcttcta ctcttaagga tgcattttat 180
 gcgttaaacy ttaatgggat tctaaaatgt aaaattggtg aagctgggtcc taaggacatt 240
 gtttctcaac ttcaagctgg tgttaaagat gcgaagctat tgcttgattt ctattattct 300
 gtcagaggct tgggtgctggc taaggagcaa tttcctggaa ctcatataag tcttggagat 360
 gccgaagcca ttttccgttc catcaagtct cttaaccaga gtgatggaan atggcgctta 420
 cagctccaac aatccccgaa tcaaagcact tt 452

<210> 3571
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-C4
 <400> 3571

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 cctttcgctt ctctctttct gttcatataa caactgaata atgtcgatct ccgccccaaa 180
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tggaacagt cgagaaacga cccttttact tatatagcaa acctcaagat cacganaaac 360
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 agctaataac 430

<210> 3576
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3576

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 cttcgatttc atttctgata atcttacatc agcccgcgac acaaagagag tatcttgatg 180
 gttgcttaca aaattccgcc ttccagtgtt aaatgctatt tcatgagatg tggacacaag 240
 ggtgcaggaa gctaaaacat taatttatga gagctgtata nacttgagga gaaaatggag 300
 atagctttat aattcatatg gtaagggttt ttgcttcttt tatctgtttc ctccgttttg 360
 tcnttggttt ttcctcctcc ttggantcca attggtcctt ggaatgaaca tgtagttgta 420
 n 421

<210> 3577
 <211> 475
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3577

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 atttttcttt ggatttttca ctactgaggc attgttgtga aattggatgg tagtagcatt 180
 ggaatggcag aacaaaagag tagtaacgga ggaggaggag gaggagatgt tgttatcaat 240
 gttccagttg aggaagcatc aaggcgttcc aaggaaatgg cttcaccaga gtctgagaaa 300

ggagttccct ttagtaaaag cccttctcct gaaatctcta agcttggttg tagtcctaac 360
aagcctccta gagctccaaa tcagaacaat gtgggtctaa ctcagaggaa atcttttgca 420
aggtcggttt actcaaaacc caagtcccgg tttgttgatt catccntgtc ccggt 475

<210> 3578
<211> 449
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 3578

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ntgatcaagt tcagcacccc actattgcgc anaaagctgc cgggcagttc atgcgttcaa 180
gtgtttccaa ggacgttcaa gtgggttacc agaggccttc tatgtatcaa agacatgcaa 240
cctacggaaa ctactccaat gctgcatttc aatttctctc gacatcccgg atgttgga 300
caaantgcnt ctcccgtggt ttgtccaaac cccangaag aagaaagggg ttcactaacc 360
tttgcccgtg gcctttctga tnggggtggtg gtttctgctg ncggtctcga agnccgtgcnt 420
gctgctcctn attgaacgtg ttaaggctt 449

<210> 3579
<211> 414
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G11
<400> 3579

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gagcagctaa gaaggaattc aacaaaactg aggatgattt gaagtctctt caaagcgttg 180
gccagattat tggagaagta ctacgtcctc ttgataacga gcgattgatt gttaaggcaa 240
gtagtggccc tcgttatgtg gtgggttggtc cgtagcangg tggacaacga aaagcttact 300

tctggaactc ggagttgtcc tggatatgac tacgngaca attatgagag ccctntcctc 360
gtnaagttgg atcctgttgt ttatancaan gttingcatga nggatcaagg ccaa 414

<210> 3580
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G12

<400> 3580

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gagaaacacg ccgattacta cccggcagcg tggtatgcta aagtttcaag agcttatacg 180
caagaatatg gataaacttg ctatgaacat cacanccgac caagggaaga ctttaaagga 240
ttcacatggt gatattcttc gtgggttaca ggtttgtgga gcatgctgtt ggaagggcaa 300
ccttacanat gggtgaaata tctcccccaa tgngtcgaac gggagtttga tacatatagt 360
nttaggagaa ccattanggg ttntgtgcct ggcattttgt ccttttaaag nttccaagg 419

<210> 3581
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G2

<400> 3581

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ccattcgcat tcgcgctaatt tcttgctgat gcaatcctag tcgcacttat tatcgcttat 180
gttccatata cgaagatcga ttgggatgct tacatgtcac aagtgggttt ctcgggggag 240
agagagacta tgggaacttg naaggcgata cagggccatt gggtttatcc aagcaagggt 300
tcctctatgt ttactctgca gtgcagaact taaactggga aggggaagtc taccctgctc 360
aagattcttt ttgggtgttc tectacaatt gtcaatcctg ggggatncgt cntggatca 420

428

<400>	3582
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<400>	3583
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aaagttttga atttgttttg gggtaaaann tgtccgttgt tgtcnaaaat 410

<210> 3584
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E1-H1

<400> 3584

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 atgaatcctg tgagaactct aggaccagcc gttgcatcag gaaactatag gtcactatgg 180
 gtgtatctgg tggctcctac acttgggtgcc atatctgggtg cagcgggtcta cacaggtggt 240
 aagcttaacg atagccgtga ctgaccgcc tcgtccgggtt aggagctttc gtcnttaagt 300
 gagtgagaga cttgtttaca agtcttttgc tttgtataat tttactgtaa gattaagtaa 360
 tgatatcaaa aagcttttga aagcntgtgt naagaatnaa aggcatgtta cnaaaaagtc 420
 accca 425

<210> 3585
 <211> 442
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E1-H5

<400> 3585

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 aatgggtcat gctttcttca agaagccgtt tgattttgat ccatcttcat cactatcggt 180
 ctatacacat tttgtgtgtg cgcttgtgcc tcctaagttg ggagctgatg gtggccatgg 240
 gattgtcttt gttgtatctc cttcccattg atctctctca tgcatacgca actcagtact 300
 tgggggtcct tcancaaact tancaaaatg gggacttcct ccttaacatc ctgccnagct 360
 anntganent ccatnaccgt taangacatt ngagttnaaa nggagctgga ncaaagcent 420
 catgttcggg nattggattt gc 442

[illegible][illegible][illegible][illegible][illegible]

100th anniversary of the birth of the author of the book "The History of the Russian Revolution" (1891-1991)

<223> Clone ID: LIB22-085-Q1-E2-A2

<400>	3588
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agataagata	acaacaatat	gaagcattct	cacgttttgc	ttcttctatt	tgttcaagtc	180
attgcccttt	tgctctctct	ttgtctatcc	gacgattttg	ttaactctag	agctacttat	240
tatggcagcc	ccgattgcaa	agcaaatcct	cggggacatt	gtgggtatgg	aagaatttgg	300
aagagatatc	aataacggtg	aaattgagtg	gtgtttcatg	ggcgactatg	gaacaaatgg	360
aactggctgt	ggtgcttggt	accaagggtga	ngtgcaaaga	taccaccaca	ctgcagtga	420
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<211> 485

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-085-Q1-E2-A3

<400> 3589

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atgaacataa	tgaatgattg	gcaagagcag	acgaaaaaag	ccattgaaga	agcaaccacc	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnctcgc	300
ggcgcaggta	acaagaaact	cacaccttgt	ggctgagact	agagaccgag	acacacatta	360
tttaacactt	tctccctctc	ttttgtttct	tatttccaaa	acctcttcgt	tcacttatta	420
taatgtcngt	aatgttatca	tccttccaan	cctaaancct	tanccttcag	attttgggggt	480
tcacg						485

<210> 3590

<211> 476
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-A4

 <400> 3590

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 ctctattca ggaagaaagc attcccattg ctttgactgg tagtgatatt cttgctagag 180
 ccaaaaatgg tactgggaan actggtgcct tctgcattcc tacccttgag aaaattgatc 240
 cagagaacaa tgtcattcaa gccgtaattc tagttccaac ccgagagctc gcccttcaga 300
 catcccaggt ttgcaaggag ctttccaaat atttgaaaat tgagggttatg gtcaccactg 360
 gcggtaccag tctgagggat gatatcatgc gattgtatca acctgtccat ttactgggtg 420
 gaactcctgg tagaatanta natnctgcc aaaaagggtg ntgtgttttg aaaaat 476

<210> 3591
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E2-A7

 <400> 3591

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 cacttctcc gactacaaag accacatcga gacttgtttc ggtgtcattc gtagagaaat 180
 cgagcgttct ggagatcaag ttttgccttt tctactacaa tgtgctgaac aattgcctca 240
 taagattcct ttgtatggga ctttgattgg tttgttgaac ttggagaatg aagattttgt 300
 ccaagaagct agtagaaagt gtccacgcta atttcaggt cgctttagat tctggcaact 360
 gcaacagtat ccgtatattg cttcgcttta tgacttcctt gttgtgcaat taaggttatc 420
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<210> 3592

<211> 420
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E1-E8

<400> 3592

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tggtactggt tctggatctg tgcgttgaat ccggattctc tcagtcaacg ccggcgctg 180
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aacttgctga ataggacgat atgagattat gtgggtttgg ggccttgtct tcatgatcac 360
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<210> 3593
 <211> 422
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E1-A12

<400> 3593

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tggcccctta ccagagata gattcttata tactactgag aatcttcaat ttctgcaact 180
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tatgcggnag ctttgatcgc ccgctcgtgct gtgtcctagt gttcatgagt gttgaaagtt 420
gt 422
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<210> 3594
 <211> 423
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-085-Q1-E1-A2

<400> 3594

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tgttcaagtc attgcccttt tgcctctcct ttgtctatcc gacgattttg ttaactctag 180

agctacttat tatggcagcc ccgattgcaa agcaaatcct cggggacatt gtgggtatgg 240

ngaatttgga agagatatca ataacggtga agtgagtggg gtttcatggc gactatggaa 300

caaatgggaa ctggctgtgg tgcttggttac cacgtgaggt gnaagatac annacggggc 360

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cng 423

<210> 3595

<211> 429

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-085-Q1-E1-A3

<400> 3595

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gagatgaaca taatgaatga ttggcaagag cagacgaaaa aagccattga agaagcaacc 120

accnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncct 240

cgcggtgcag gtaacaagaa actcacacct tgtggctgag actagagacc gagacacaca 300

ttatttaaca ctttctccct ctcttttgtt tcttatttcc aaacctctt cgttcactta 360

ttataatgtc tgtaatgtna tcatctttct actcttaagc cttagactac nagattttgg 420

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<210> 3596

<211> 426

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB22-085-Q1-E1-A7

<400> 3596

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tttcggtgtc attcgtagag aaatcgagcg ttctggagat caagttttgc cttttctact   180
acaatgtgct gaacaattgc ctcataagat tcctttgtat gggactttga ttgggtttgtt   240
gaacttgagg aatgaagatt ttgtccaaga agctagtaga aagtgtccac gctaatttcc   300
aggtcgcttt agattctggc anctgcaaca gtatccgtat attgcttcgc tttatgactt   360
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<210> 3597

<211> 453

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-085-Q1-E1-A9

<400> 3597

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agcttacttc ttcgagagta gccatcatcg gtgctggtgt tagcggatta gcagccgcta   180
agaacttagt tcatcacaac ccgaccgtat tcgaagcctc ggattcagtc ggagggtgttt   240
ggaggagctg cacttacgag acgactaaat tacaatcggc tcgagtcgat tacgagttct   300
ccgactttcc atggcccaat aatagagatg acacaacttt cccaccttac cttgagatat   360
taagattact tggaatctta tgccaaacat tttgatcttc gcaaattcat gaantttggc   420
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<210> 3598

<211> 428

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-085-Q1-E1-B10

<400> 3598

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ctctcgcccc cgtggaccgg ccaagatctc ggccgtggca gcaccagtga ggccggctct 180

aaaacaccaa aacaaaatcc acaccatgcc accggagaaa atggagatat tcaaattctt 240

agatggatgg gccaaaggatc aaatcttgcc tcttctcaaa cccgttgann caatgttggc 300

aaccgccttc tttcttacct ggacngcggg ccttaccctt ctccgacgtt taccggacca 360

ngttcgtgaa gctgacggaa angaacggnc ctgctggca gacgaatact ttcgtggtgt 420

tggttgga 428

<210> 3599

<211> 436

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-085-Q1-E1-B4

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agatggcttc ttttgaaatt cccttcagtt ttcagccttg gttggttcca gaagaaaggt 180

ccaagtgaag aagaggtaga aagcgctacg tttaagatgt ggttcatagg tcgtgggtac 240

agcnaaagag agtctagctt cacaaggana aacaaancct gacttggaatc tcattacnag 300

aatttcagga cctganattg ggtatatnac caccctgata acacntgttc aaatgcnggn 360

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<210> 3600

<211> 409

<212> DNA

<213> Arabidopsis thaliana
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 gagatcatcg gaggtcaac ttcaaatgaa tttctacgag aagagctgtc caaacgcaga 180
 gaaaatcatt tcagatcata ttcaaaatca tatccacaat ggtccttctc ttgcagctcc 240
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<210> 3601
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 ttcactccct tctcctgctc tccctcgctt tcgtgtttca tgtcaagcct cctccgtcac 180
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 agatgatattt gacacagcca ccattaaaac gatttttagac aaggcttcaa gaggttaagg 300
 ccttgctgaa atcaggggag agaaattatc taccttttaa agggaagtct atgtcnaatg 360
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 g 421

<210> 3602
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E1-B9

<400> 3602

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gtcgttgaac cgaggaagat agctctgac accggaatca ccggnccagga cggatcatac 180
ctgacggngt tccttctcgg naaaggctac gaagttcatg gtctgatccg tcgatcatcg 240
aatttcaaca cccagcgaat caaccatata tacatcgatc cacacaatgt caacaaagct 300
ctgatgaaac tcactacgc cgatctcanc gacgcttctt ctctccgtcg ttggntcgat 360
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<210> 3603
 <211> 409
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3603

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tccttattca ggaaacttta gcaccattgc tgttcaatgt ctgcagaagc taccacaaaa 180
tagcagcaag tatacttact cttgcgatgg tcatactttc aatttccttg ttgacaatgg 240
ctttgtgttt ctagtggttg ctgatgagtc caccggaag aagtgttctt ttcgtgtttc 300
tcgaacgggt caaggaagac tttaagaagc ggtatgaagc gaagtataaa agaatgatga 360
gccgacatcc tcttgccgga tgangacgaa agatgatgat ttgtttggg 409
  
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<210> 3604
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3604

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 aaagaaaatg ttttgggcgg tctgccctcc tggtcctgct tcacgggacn gncatcanca 360
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<210> 3605
 <211> 401
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-085-Q1-E1-D9
 <400> 3605

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 aaatgccttc gattttctctg gcgccattga tttagttttc tctctctgac tacaaagtat 180
 ccattcgctc aaaccagttt cttcccattt tcgatttctg tcaaaattca ccaaccaact 240
 ccaaaaactc tgttattgaa taagtttctt gatcttaaaa caaacgatct caaagaatgg 300
 cacgacacga tcctaattcca tttgctgatg aagagatcaa tccttttgcg aatcatacaa 360
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<210> 3606
 <211> 401
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3606

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cagagataga ttcttatata ctactgagaa tcttcaattt ctgcaacttt tgtatctctt 180
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tgatgangag agaataattg tggctagtaa agtctgtgga gaagcaccat gtgggttttc 300
anattctaag aatgcttccg gggatgctca cgaacctctg cttcatgcgg aagctttgta 360
nngccntcgg tgctntgtct actggttcat gagntgttga a 401

<210> 3607
<211> 408
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-E11
<400> 3607

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aatctcccat ggttggtaca tctgccaatg ttatttactt gtctgcaatt ctgggtcgcg 180
attgcgatgg acacaaatgt gattggaaat gtgagaatga aaatgtttgt gggaatatgt 240
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tctatgataa ccatagctct ttgtgccgag ccantgggag gattttccct ctctcgtccg 360
tcganggagc aangcggttt aaagggtgtt cggganggaa agccttga 408

<210> 3608
<211> 371
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A11
<400> 3608

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agctattgct gaattgtgtg gtttgaatca tattgaanaa gctgctgtgc ttagtacntg 180
taaccgtang gagatttatg ttttancctt atctcagcat cgtggagtta aagaagttac 240

tgaatggntn tcaaagacca gtgggatccc aagtttcaga gatttgtcaa cacngttttc 300
 tgttgtacaa caancgatgc tacacaacat aaatttnnga gttctcaanc tggtcnttg 360
 actcctcttg t 371

<210> 3609
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-B8
 <400> 3609

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 atctctcaaa ctcaagtctcc tatctgtctc tctgcaaact attaccaacc agataattta 180
 gatatggaag ctactcagaa acatatgatt caagaaggat cttcaatgtt ttaccatcaa 240
 ccatcttcag tcaaacaaat ggacctttct gtccagacat ttgattctta ctgcacactt 300
 gaatcctctt caggcaccaa gtctcatcct tgtcttaaca acagaaacaa ctcttcttca 360
 nccacaagct ttctctctaa tgaaagtccc atttctcaag ccaacancaa cancttatca 420
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<210> 3610
 <211> 506
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-C11
 <400> 3610

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 ctgggtcatt gggggtgatc ttgaggttct tgagccagtg aagtacaatg atgggcttga 180
 tcgtttcagg ctttcgcctg ctgagttacg taaagagttg gagaagcgta atgcggatgc 240
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tactcgtagg agacttcttg agatgggtta caaaaaccct attcttttgc ttcacccggt 360
angtgggttt acaaaggctg atgatgttcc tttagattgg angatgaagc aacacgagaa 420
ggttctanag gatggtgttc tccatccgga gactacagtg gtttcgatat tcccgtcacc 480
tatgcattac gctgggtcca accgaa 506

<210> 3611
<211> 471
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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gagcaagacc tccatgtttc ttctgctgtt tgggaaggac aggaacgagg tctacttcgt 180
tgtcaagaac acacttcatt gctacatcaa tggaaactca ctgatgaaca aattaacctc 240
gtggacaaag ctgggttcgg ttactttcgc aaaatcggtc caatgaagtt taaacaattc 300
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ttanggagaa aatgactata accttaaagc aagtttgcct taantaactt gggacttgag 420
aattgatgga gattccaatt gttgggtccn aaagtttgnn gatgaagggt g 471

<210> 3612
<211> 527
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 3612

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tatgagagag tggttggtga tgaagagaag cttaacaagt ttctgagatg gagagttcag 180
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caagttacag atcttaaaga tatgcctaag agagagctta gagttgcttc taatcagatc 300
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ccttggtact tcantgtgat ctactcaatg ttcagcccat tcctgactca agagaacaan 420
gagcnagttt gtgatgtcca aagaaagcaa tgcancanaa acactcnaaa ,attncatnag 480
gccaaaaaat tcccgggcna nacggggggc ctnaaccctt ccaaaag 527

<210> 3613
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D10

<400> 3613

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ttttggaact agaggaggtt gatccctttt tcgatcgtga ctcagtggat ttttctctac 180
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gaaaacgtat gaaaaagttt ggtgaagaaa agctttttgt tcaaaagact ccagaagggtg 300
aagctgtcaa gggatttcct gaagcagagg tgaaatggat gtttgagag aaagagggtg 360
ttgttccgaa agctatccag ctccatctac gccatggttg gaaaaagtgg caaggaagaa 420
gcaaaagccg attttaaaca gaaacntttg ggaaaagttg aattttggca aacaa 475

<210> 3614
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D3

<400> 3614

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gttccggcgt ccgaaacccg atggcgccac cacctgccag tacctcctcc aagggtacg 240
 cctcctctac tctcaccatc tccgtcagac gggttccttt ctcccgccac ctgagtctgc 300
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 ccgattcaac tgcggtttcc aanacgccgg tggatttcgc aaggggtgat ggacatcaac 420
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 aatccgctg 489

<210> 3615
 <211> 475
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-D4

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 taatctcaga gagttcagca ttactgatct caantctgca acaaagaact ttagccgatt 420
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<210> 3616
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-D5

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aggatcattc accgtgacat caaagcttct aacatattgc tcaaccacga ttacgaagct 180
 cagatttcag atttcggact tgcaaaatgg ctcccagaga actggcctca ccatgttgta 240
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 gatgagaaga ttgatgtggt tgccctttgga gtattgcttc tagagatcat aaccagtcgc 360
 cgagctgttg atacagcaaa gcangcaaag cattgttgca tgggcaaaac cttttcttga 420
 gaaaaatanc atgggaggac attgtngatt ctccgntaag gaaatatgtt aaaccaac 478

<210> 3617
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-D6
 <400> 3617

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 gttanggatt tgacgaaaga agaagacggg gaaattgaat ctacgacggt taagaagaag 420
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<210> 3618
 <211> 472
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-D7
 <400> 3618

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tgcttcagct agcaaagatc ctttactcaa gaggtttttc gatcaccatc atccacacgc 180
gcttcaacgc gcccaaatct tcagaccatc ctctcttcac tttcttacia atccgcgacg 240
gcttgtctga atctcagact caatctcgtg atcttttgct tcaactcacg cttctcaaca 300
acaattgtca gatcccatct cgagagtgtt tggctaaact cattaaacct agttcagatt 360
caggaacaga ggataggaaa attanctgtg tgatcgatga ttccggttgg gtttcacaca 420
atccgtggcg gaaagtttaa acctcctcga ttgacctccg tgctaaaagt tc 472

<210> 3619
<211> 543
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E1

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agacgaactc accgtcgaag aacgtaatct cctctccgtc gcttacaaaa acgtcatcgg 180
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tctggagatt cgaangtgtt ttatctgaan atgaaagggtg attaacatag gtacttggct 420
gaattcaaat cctgggtcaag aagaaggaaa gatgcctgcc ggaacatact ccttactgnc 480
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tcc 543

<210> 3620
<211> 462
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E11

<400> 3620

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gatgatccat tggttccaga gattgctcac atgtacaaaa ccgatagagc aaagtatgag 180
tctactgcga gaagctggac tcagaaatat gcaatgggat gaaagtttgt gtcctttgat 240
ccctcacaga ctcggtttta nnnnnnnnnn nnnnnnnnnn nnnnnngact tcttcacata 300
gggatcttcc atgaaataag ttagattcct atgttttate atctctttgt ttgaaacctc 360
tttaattctca aacaaaaaca ttacttcacc tctttattat ccatatgttc cctatctttg 420
tttctatgcc ttttcccaaa aaattataag aaaaattatt ta 462

<210> 3621
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B7

<400> 3621

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acaacaatat atacatataa tagtttgctg ttatgcctgg ctccctgtat gccacgagtg 180
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gaagcatatg gtaactcaat tgcattctaca actaaatatg aaatatctag ttatgtatat 300
ggtttggtgt ctataagatg ttttcttcga attttgattt ttgtgttcat ttgaataagc 360
aaacagaaat aaaaccaagt tttgtagttt tttgctttct ttctgatttg gtccaatggc 420
tttgattcag gtttgagttg atccttttaa ttcattatga nttaaatttg a 471

<210> 3622
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A2

<400> 3622

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cgaaccgtta cgcgcgcgcg caaaaacggt tcagatcaca agcgcaacag caattccgat 300
ctggtcataa tcctctgtat catcatcatg gtaagtaata ataataacgt gtctagggtt 360
tcttctcaat catataacaa ttgcggtggt gatgtgattg gttccaaatc aagttttgcn 420
attacgttac aatgantcca acacaacaaa ttacangaaa cccttggttg ccgggtaagg 480
aanc 484

<210> 3623
<211> 531
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A3
<400> 3623

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ttagcaaaag aatttgaaga aaacacaaga tcaaactcca tgtgtgggac tacggagtat 180
atggccccctg agattgttcg tggaaaagga catgataagg ctgccgactg gtggagtgt 240
ggaatccttc tgtatgagat gctcactgga aagccgcgct ttctcgggag caaaggaaag 300
atacagcaga aaatcggttaa ggacaagatc aagcttccac agtttctgtc taatgaagct 360
catgccttgc tgaaagggtc gctgcaaaaa gagccagaaa ggagactggg aagtggaccg 420
agcggagcag aggagataaa aaaacacaaa tggttcaaag gcgataaact ggaagaaact 480
gganggctag agaaatncaa ccaaatttca agcccggcgg tttccgggaa a 531

<210> 3624
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-A4

<400> 3624

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acaaggatct ttgttggtga tgagagggaa cagtgcagac atggcaagac atgtaatgtg 180
tccatcacaa tgacaaaaga agtaagcatc acattctttc gtattcgacc ttgacacata 240
tcatagccat tcacaaccca gcagtcctcg caacgacggt gtcatgacaa tgtggcnnc 300
ctaccaantg acaacaactc caatcctcaa ttgggtaaga tnattcaant tgacatgngt 360
gccaaaaact tggagtcccn acgtcctcca attggtcang attgnaccaa caaccggggt 420
caaccaangg attttcncaa tttcccaagg ttaatgggaa acccggtggg gggnacccgg 480
gnttttccta acaaaggggc cccgg 505

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<210> 3625
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-A5

<400> 3625

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tacggagtat atggccccctg agattgttcg tggaaaagga catgataagg ctgccgactg 180
gtggagtgta ggaatccttc tgtatgagat gctcactgga aagccgccgt ttctcgggag 240
caaaggaaag atacagcaga aaatcgtaa ggacaagatc aagcttcac agtttctgtc 300
taatgaagct catgccttgc tgaaagggct gctgcaaaaa gagccagaaa ggagactggg 360
aagtggaccg agcggagcag aggagataaa aaaacacaaa tggttcaagg cgataaactg 420
gaagaagctg ggaggctaaa gaagtncaac caagtttcaa gccngcggtt tccg 474

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<210> 3626
 <211> 482
 <212> DNA

<213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-A6
 <400> 3626
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 gatggagagt tcagggttttg gagagagggtg ttaaaatgct tcattttaaa cctgggtggtg 180
 ttaattccat tattcaagtt acagatctta aagatatgcc taagagagag cttagagtgtg 240
 cttctaataca gatcctctct ctttttcaag ataattaccc tgaattgggt gctactaaga 300
 tattcataaa cgtgccttgg gtacttcagt gtgatctact caatgttcag cccattcctg 360
 actcagagaa caaagagcaa gtttgtgatg tccaaagaag gcaatgcagc agaaacactc 420
 tacaagttca ttangccaga aagatatccc ggtgcaatac ngtgggtcct aaccctccca 480
 ac 482

<210> 3627
 <211> 513
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-B1
 <400> 3627
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 nnnnnnttat ccttatccga taaaccaca aataaagaca gactcttttg ttctttaaac 180
 agagattgta aatccagagc cgccggaaaa tacaaccgcc ggtttactct caggattagt 240
 tgatattatt cgattttaaa aatcagtagg aagaagatga agtacgtgct tgtaacagga 300
 ggtgttggtga gtggattagg gaaaggagta acagcaagta gtattgggtg ttctccttaa 360
 agcttgtggt cttcgagtta ctctatcaaa atcgattctt atctgaacac tgatgcctgg 420
 aactaagtct ccaatttgaa cacggtgaaa tttttgtcct ggacgatggg ggtgaagggtg 480
 gtcttggtgc ttgggaacta caaaagggtc caa 513

<210> 3628
 <211> 495
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-B10

<400> 3628
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 cctgttcagt tacagagggt ctggatttgg gcaaagagac aaaaccatac ctatcgtccc 120
 aatcgcccc ttacgcctca agaggaatta caaccggttg gacaaataag ggaagcatct 180
 aataaggcaa aactgcaga actcaagctt tttttggaag tagagcacct ggatttacgt 240
 cctattcctc ctctgaaaa atcaaaagaa gatattcttc ttttcttcaa gctttatgac 300
 cccgagaagg cagtattaag ctatgctggc aggctgatgg tgaaaagttc cagtaagcct 360
 atggatataa ctggaaaact gaatgaaatg gttggctttg ctctgatga agaaatagaa 420
 ctttttgagg aaatcaagtt tgaaccttgt gttatgtgcg aacacttgga taagaaaact 480
 tcattcagat tgtgt 495

<210> 3629
 <211> 492
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-B11

<400> 3629
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 cgaaagagct tactagtatt caacaatggc ggatccgacc aggaaccgat tctcgtccc 180
 atccttttcg aactttccgg ggactacaaa agggtttctg cgtgggcatt ttaccggacg 240
 ggtcgacag aaattcggag gctttttcta gcaattcgat cgccatggaa gggatcttat 300
 cggagcttcg ttcccatatc aaaanggtat tggccggang tggagaggaa gcggttaaga 360
 ggaacagaag cagaaacaag cttttgccta nanaanggat gatcggctac ttgatcctgg 420

ttcttccttt ttggaactct ctcagcttgc aggacatgaa attgtatgag gagccctttg 480
ccctcaaggt gg 492

<210> 3630
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B2

<400> 3630

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actatgagtg tgaatgccca aggccatgaa atccaaaatg gtggtggaac aacaagccag 120
ttctcatcgg ctttgtgggc attaatggac tcaatacctt caacgccagc ctctgcgtgt 180
gagggtcccc ttaaccgaac ctttgtacgt atgtctagct tcagccgtat gangttcaat 240
ggaaaggcta atggaacgcc agtgagtact accatagcaa agaanggtat taganacaga 300
ngttttcttc tattaacaat ccgtgggtgc tttgtgtgcc atccttcctg ggggtgttgg 360
anccacaatt ccgagtctca aggttagaaa gtcctcccct tgaaangact aattgggtggg 420
ttccccttgg gaactcctta actaactggg taagtttaag aangaagaaa cccaggattc 480
cacattaatt gttcaatggg gaattattga 510

<210> 3631
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B4

<400> 3631

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ctctacgtat ccaagatgat tccagcctct gacaagggtg gattctttgc cttcgggtcgt 120
gtctttgctg gtaaggtttc tactgggatg aaggtcagaa tcatgggtcc caactatatc 180
cctggtgaga agaaggatct gtacactaag agtggtcaga ggactgtcat ttggatgggt 240
aagaggcaag agacagtgga ggatgtccct tgtggtaaca ctgttgctat gggtgggctg 300

gatcagttca tcaccaagaa tgctacattg actaatgaga aggaagttga tgctcaaccc 360
 attcgtgcta tgaagttttc tgtgtctcct gttgttcgtg ttgctgttca gtgtaangtt 420
 gcntctgacc ttcccaagtt ggntnanggt ctcaagaagt tggncaaatc cgattctaan 480
 ggttgtgtgt acaatgggag gaacaagggt ancacattgt tgcc 524

<210> 3632
 <211> 506
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-B5
 <400> 3632

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 acaactttga atttttcacc ctcaactttca tttatctcaa atctccttcc agaaaagcga 120
 gggaatagtg ttgttgagag gtttgtgatt tccttttgaa aaaatgatgg cttgtggctt 180
 aagcaagagc cttggcttgt cttcctcctt gaagaagcaa caaggcatag tgagtatcct 240
 tggtggcatt tcgtcgaaca cttcatctgc accttcactt aggcgaactt tctccgccga 300
 tttgtcctcc aagacttggg tttcccaaaa tgggttttct cctatgaaga gaattctctt 360
 ctctgagaa gcttcgtcct gacgaagaan atcagnanga angaatcaan ntccgggant 420
 cnatntcctg gggcaacaga ttcaacaang acaaggaacg ataagcnnga agngaaggan 480
 cagatcaagc cggggtcaat tccgga 506

<210> 3633
 <211> 528
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-B6
 <400> 3633

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 acgcgtccga tttggtgtac ctgttcagtt acagaggttc tggatttggg caaagagaca 120
 aaaccatacc tatcgtocca atcgccccct tacgcctcaa gaggaattac aaccggttgg 180

acaaataagg gaagcatcta ataaggcaaa cactgcagaa ctcaagcttt ttttggaagt 240
 agagcacctg gatttacgtc ctattcctcc tcttgaaaaa tcaaaagaag atattcctcc 300
 tttccttcaa gccttttatgg accccgaaga agggaantat taaccaatnc cnggcaaggc 360
 tggatggtga aaagttccaa gttaagccta atgggatata actgggaaaa actgattgaa 420
 aatggttggc tttgctccgg atgaaagaaa ttanaacttt tganggaaat caagnttgga 480
 acctggggta agttgcaaaa ccttgggtaa aaaaactca atcaaaaat 528

<210> 3634
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E2-A11

<400> 3634
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 tttttgtttt ccttctccgg cgaatccccg gggagattgg taatcggtaa tcacggctat 180
 ttacgggata aagccacggc ctttgagctt tcatgtccaa cgaaagggtt gtttaatcat 240
 aactaatcct ttgcctcacg gaggacgtgg agctctgccg tctgaaggcg gcagtccttc 300
 cgatctcttc ttctctgccg gaggcgggtc cacaaatagc cactaaccct aacccttttt 360
 ctaattaggt ttttagttct taagagtcct gtattaatct gttatttcga gattataata 420
 tttgtgagca atgttggtga agatnaaaag agtccaacag ttgtatcgaa ttatcaaaaa 480
 gatgaga 487

<210> 3635
 <211> 478
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E1-E8

<400> 3635
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tggaaccct aatttcttga ctaacttagg gttttattta tccatttgag atactctgta 120
 attgaaaggt tgaattttta gaagagacat gggagggttcg tcggagacaa agatcttaca 180
 agaactcata ctttacgcgg cgagcgctgc tttcagctgc ttgggttctct ttgcgggtct 240
 tcgtcatctc gatcctaate gtgaggcttc taaaaaagct ctcgagcata agaaggaaat 300
 ctctaaacgt ttgggtcgtc ctcttgttca gaccaaacc atacgangaa tgtaattgca 360
 tgtgatgttg ataaatccaa gaaccacatt tgatgttga gtttgggttc aattggaggg 420
 gttggagacn tccaagncag gctttgtatg aancttgtga tttaaccacg gaaaaaga 478

<210> 3636
 <211> 476
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E1-E9
 <400> 3636

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 tgcgcctctc atgcctcat ttcaaaaccc ttcatttggg gaggcattgca caaggagtcc 180
 acaatatagc attagaanag aaggagaga aacctgaatc agaaaagctt tttgacgccc 240
 acctttctcc aaagggtttg caacagggtt cggaaggcg canccaaatc cttgaatcag 300
 gattacttan cactgtcgag ttagtgataa cctcnccgct gtgcangagc antggannct 360
 tcaataggaa tatttagggg gacaaangat atgtaaatat atcccgangg actttgcaaa 420
 agcctaacia cttncctcc aattngtagc anctttgaga ttctgttnaa gaacgc 476

<210> 3637
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E1-F11
 <400> 3637

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ttgtgctctt cccatagtga ttgctgggat agagagatat gcattcaaag gagttgcatc 120
 aaacttagtg acatatctaa ctgatgtagt gaagatgagc aattcaagag cagccacgac 180
 tgtgaacact tggagtggct tcactttcat gttgcctctc ttctctgctc cttttgccga 240
 ttcttattgg gacagattct tcaccatcct tgcttcttct tctctctact ttgtgggtct 300
 agtgggattg acatttacgg catttgctgg gtcacgttcg actacanaaa caatctctcc 360
 tttaaactcc ccacaactca cttttcctcc gtcgctccta ggccttgggg tccttaaacc 420
 ccatcctcta caagnccctg gtggctgnac aagctccgac tacgaacctt t 471

<210> 3638
 <211> 531
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E1-F4
 <400> 3638

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 aaatatatgt aactggccgt agaagaaaca cattgaagga agannnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn tgccggacatt tccagangca gttttccaaa gggctttgtc ctttggnact 300
 gcttcttcgg ctttcagcat gaanganccg gtgaangnag aacggcagan ggcccnacga 360
 tatnggaaca cattttccca cacctttggg aaaaatcnac cgnatttanc caatggctga 420
 tgtcccnngt tgattcagtt atcaacctta cnagggaana atgttcaacc tnatngaacg 480
 aataatggga aatggncnc taacagaatt ttcccaattc cttggacccc n 531

<210> 3639
 <211> 467
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E1-F8
 <400> 3639

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ttcatcttct tcttgttctg attgtttgac aagttttacg acaatggcgg tttacggcga 180
gaagaagcat tgggtggctcc gcaacaagaa gatcgttgat aaatacatga aagaagcaaa 240
gagtttaata gcgagtcaag atccaaacga cgtgaaatca gctctaaatc ttctggaatc 300
tgcantctct gtatctctc gttacgaact cgctcncgaa ctcaaagcca gatcccttct 360
ttacctccgt cgatacaaag acgtcgccga tatgcttcag gattacattc ctagtcttaa 420
attagccggc ggcggcgaag attccgggtat cngttcatct gagcttt 467

<210> 3640
<211> 461
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F9
<400> 3640

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cacctctttc tccgccgtc agaactccac gtgtcctctg gacttttccg tccttgaacc 180
gttccggcgt ccgaaaccg atggcgccac cacctgccag tacctcctcc aagggctacg 240
cctcctctac tctcaccate tccgtcagac gggttccttt ctcccgccac ctgagtctgc 300
tgcttcttgc tgggctgctc tccagtcttc cgtcgccggt ttcctccctc gctttgacgt 360
ccgatccacc tgcggtttcc agacgccgtg gatttcgcan ggggtgatgg acatcaccac 420
caggtctcaa ttcgagtccc ttatccctaa ctctccctc g 461

<210> 3641
<211> 502
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-G1
<400> 3641

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 catttcgcta attttggaga aaaacgattg ttttttttaa tcgtttcttc atttctgatt 180
 catttttctt ggtttatgat ctgttcaagt aaaggaacaa tcttaatcgc tagaggtaaa 240
 aattcaaata caatccctag attacccta aaagggtcat ccacaaatta cgcgatcga 300
 attcaaattc gaaacccaat cagtgtcaaa actttccggc gatcatcttc atcgatcaatg 360
 gcggtggaaa caatgtcgat gggatcagat tcatcaactt tgattctaac atcangagca 420
 aagcggtcgc gttanggtac ccttcctcga tgccaagagc ttaaagcgc tcgttaagan 480
 taancaatcg ttgaatcctt tc 502

<210> 3642
 <211> 463
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-083-Q1-E1-G11
 <400> 3642

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 gccacagttt ggtttctcac agtcaccgat cggggagcgt aatttcgcgg atgttgataa 180
 tctggagaac tgtattaagt atttgaatca gagcttagtc acctctggat tctctgcttc 240
 gcttgacctc ttcgctaccg atcctgtttc gattgctaga acttgcaatt gcgtatacgc 300
 tttgattcaa cagaggcaac gagatgtgga atttagagaa tctgctaatt atcagagaca 360
 acgactttta tccgatatgg gcgagactcg aagcaaaagt tgaaaggctt gagactcaat 420
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<210> 3643
 <211> 505
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-083-Q1-E1-G3
 <400> 3643

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tcattcgttt gcgttgatgt agcaaaacaa aaaccaaagt gggtcccgctc tcgttctgct 180
tcntctttct ccttctcttg ctctctgctg gagagagttc atcgcantta gtttctggctc 240
cacacatcac cgatgttaac atactcntac ctcccaagat gaagaatccg gttgagtatc 300
gccttcaang aagtgatggc tgcttcaaag ggtcatggga tcatcatgat attctatcaa 360
gtcacacctg agtttaattc gagcagtcac tgttcgacca gcgcgcgtct caaatcgatt 420
tctccggtat agtggtagaa aaggagactg cagtttatgc cactgatata cnagactggg 480
atgggtgatt cgctgcaang tcttt 505

<210> 3644
<211> 470
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-H5
<400> 3644

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taggagtggc tctgctccac cgactgttga tggttctggt agtgctgctg gagggccttt 180
tagcggcgga ggtggggctc cttttttgga gtttggtgga ggcaacaagg gtaatggggt 240
tggtggcgat gatgangagt ttaggaaaga tccggcttac ttgtcttatt actatgctaa 300
tatgaagttg aatccgaggt tgccaccgcc tttgatgtct anggaggatt tgaggggttc 360
tcagaggctt aaaggagta ataaatgttt tangtgggtg ttggggataa ngaaggaaag 420
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<210> 3645
<211> 507
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-H6

601730-163630

<400> 3645

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ttttaatggc gtcgtgtgat gacgatttct ctctacttgg agacgatcag tcaaacccta 180
atcaacatca ccaccaccac caagttcttc atcacacgcc ctacgctcct agacgattca 240
acccgaaacc atcgaatcag atccttttac cgcataacca gaggaacggc gacgaggacg 300
acgagaacga tgtcgttgta gaagcgtctt ctgctttcca cggtcacggg gttaatcctt 360
tcacggcgga cgaaaattcg aatccgtatg atgataataa cgcagctgta gacgaagacg 420
aaagacgaaa gatctcgggtg ccaacagatt tagaatcgga ggtgttcgtg ttganaaana 480
gggaagagtc agggaggaac taagtna 507

<210> 3646

<211> 495

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-083-Q1-E2-A1

<400> 3646

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aggtttcctt gtcttcagag gcgttcaagg tctaattgga tcaaatggta gcgtcaaaag 180
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catcattctt gcattccttt ggcaaatggc attcaggatt tggcctgatt tcatgattca 300
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<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-083-Q1-E1-E6

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tttggtttgc aatggaaaga gattttctgg gtttgagcga caagcagtat ctaagtaata 180

acgttaagca tgaggttaac gatgatgctg tcgaagaacg agggttaagt acgaaggcag 240

ctagagaatg ggggaagtca aagggttttg ctacttcaag ttcatgcct tcttcagatt 300

tccaggaggc taaggcgttt ccgggtgcat accaagtggg ggatnagttt ctgcgggcaa 360

tgttttccgc agatgccaan ttggtggtgc gtttcaaaaa cgcgacgccg cntttaataa 420

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<210> 3648

<211> 475

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E2-C12

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atgttgaatg tcaggttcat tgatgaatct gttttctctc tgcttcaagc cattcgggca 180

cgtctgtgat aattccgaag ctggatcggg tgggtggtgt ggcgtttctg gtggaaccgg 240

cggatgaaggc aaagacggat tgctttggtt ccgtgatctc ggtaaattatt gcggcggaga 300

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ccggtaat tgggactttt gttggtgttt acgaaggcca tgggtggtcc tgaaactgct 420

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<211> 489

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E2-C2

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caaggagctg gagctgcaac ggctctctcg ccgtttaatt ctatcgattc caacaaactc 180

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gatagtaaaa gcttttggtc tagcctcgta nctcgctcgct ctgaaccgtt gataccaaat 300

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tgagctatca acttttcogan ggctcttcaa gaangtccta nnaagaaaga agatggacaa 420

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<212> DNA

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<223> unsure at all n locations

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ccgcatgggt tcaggtctcg gcgggaagtg gttcgacgtt cccgctttac tctccgctc 240

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aagccaaatc ctctcttggg cttgcccttt tggctgcttt ttggttaactc caaccttanc 480

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<210> 3651
<211> 473
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<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3651

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tggcatccca tctccttggc tccagggttaa ggcaatgagg gctcttcaat attttccaac 180
cattgaagat cccagtacca gaaaagctct ctttgagggtc cttcagcgaa tattgatggg 240
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cttcttggca aagttaattt ctgtccgtta gcccaacatc agatatctag ggcttggaaa 420
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<210> 3652
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3652

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ggtattgtcg agactagaca gtgataaaga taaggaagtg tttggtttgg tctgcaagag 180
gtggctaaat ctgcagagta ccgaccggaa gaagctagcg gcacgtgctg gtccacatat 240
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tcaaagtttc tcagagttct taaatcttca caactgtaaa ggtattacag atactggatt 420
ggcctcaatt ggaaggtgtc cttccttaac tg 452

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<400> 3654

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<210> 3655
 <211> 499
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3655

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 ccctcgagc tcatctccat gtaccagctt cctcataaga tagctctttg tttgccttcc 240
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 aagtccggcg agtacttaat cgatgtgaag tccatccaaa tcggtgcaaa gaccgttcct 420
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 <211> 529
 <212> DNA
 <213> Arabidopsis thaliana
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 gccaccgtca cccctgagta caangaacta tcagaatggt gctgctaata ccccaaaggt 180
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 aatctttaca ctctttatcg tctgatggaa tctctattga cctcaacggt cagaatgatt 300
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gctgatcntg ggaaaccctt atnancaacg ancctccaag gggcattgaa cacanntggc 420
aagaattnac acagccaagt gagattaagt ttgtttaatg ttgttaagcc cctccannnn 480
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<400> 3657

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aacaataca gtttacagga atacttagca ataaagctca agaaaatcca gactttttca 180
actggaatcg agttaagctt cgttactgcg atgggtggtt cttcagtgga gatagtcaga 240
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caagagttaa atgccttaaa gttgatgcaa ggcttggttcc ttgggacacg ccctgatggt 480
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<210> 3658
<211> 510
<212> DNA
<213> Arabidopsis thaliana
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<210> 3659
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 <212> DNA
 <213> Arabidopsis thaliana
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 gagcgtcggg gagagatttt ctggatctgt gatacgttcc aggaaacatg gcgacgatga 240
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 gttccggaaa atcttcagtt ctagaaagtg ttgtgggaag agattttctg cctcgtggat 420
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<210> 3660
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 <212> DNA
 <213> Arabidopsis thaliana
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 <223> Clone ID: LIB22-082-Q1-E2-C11
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ctggtaactg tttcgcttg cccgtanaag tccgaanatt ccnngcatgc ctcagccggn 60
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<400> 3665

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tgtggaaaaga aaatatgctg aagcggcatc tttatgcccc aaattgttac gaggatctgc 180
ttcagcctgg gagagggtggg ttttccattt tgctcaacta cgccagctgc ctgttcttgt 240
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cacgttctgt atattctgct ttgactgtta tctcagcaat agancctcaa ctgaacacat 420
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<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 3666

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ctaactacga tggaatcctt ctcggtatgg gtaaccact cctcgatata tctgccgtcg 180

tcgacgacga atttctcacc aaatacgaca tcaagttgaa caatgcgatt ctgcggaag 240

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gaggtgctac tcagaactca atcaaagtggt ctcagtggtat gcttcaaatt cctggggcaa 360

ccaattacat ggggattcat tgggaaagga caaatatgga gagggcatga nagaangatg 420

ctacattgct ggattcttcc tcacagtata gcctgaatcc attcaagttg gnatccgagc 480

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<210> 3667

<211> 524

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<213> Arabidopsis thaliana

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agcttctcta gacatatgga agtatgtctt tgggtttgca gatatagcag ctgcaaagtg 180

tgccattgat cttaaaatac cagaagccat tgaaaacat ctttcttcac agcccgtaac 240

actagccgaa ctctctccg ccgtctccgc ctctccctcg catctccgcc gtataatgag 300

gtttcttgta caccaaggaa tcttttaaaga aatccccaca aaagatgggt tagctacagg 360

ctacgttnat acgccactct ctgcgcgttt tgatgatcac aagacgtgat gggaaaatcg 420

ctggctcctt ttgttctcct tcgaaacanc tcnegaagat gctcgctcca atgggtttga 480

gacttagctc agtcgtntct tcgccggtca acggttcaac tcca 524

<210> 3668

<211> 524

<212> DNA

<213> Arabidopsis thaliana

THE **WORLD'S** **LARGEST**

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnaca	caacaacaac	aacanaataa	180
tcttgcaaag	tttcagtcct	aggtgggttc	cagttaatgc	tacttgcaat	gatgaatcca	240
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gcagaagaaa	ggttgggtcag	agtcgctgct	agaatttcgg	tcagggtttg	gggaaaagat	360
gaaagttgtg	tcgaagaaac	gttggaatac	tcttggctct	cttcactctg	aaaagcanat	420
cagttgcacg	gttttgccct	cttttcgaag	ttgaagtcan	acaaccatgg	tccaangccg	480
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tctgatatcc	tgggaataatg	atctcctcaa	ngga			514

1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

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1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

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513

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<211> 428
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<223> unsure at all n locations
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453

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<211> 411

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ctctgggcat taaggtgagc aacaaaatgg atccctttga gctgggtaag ctagtagaaa 240

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aacatgagag ttaagcttcc ccacctgatc aagangcagt ccgcagatca ggccagattg 360

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<212> DNA

<213> Arabidopsis thaliana

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<223> Clone ID: LIB22-082-Q1-E1-E8

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agcgtaccag acaattggat ggcgctcatg tcgagtttct caggggggatt gctaatactc 180

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tgaatcctaa taacaagcct ggaagaatca ctgtaattgt gagaatgggt gccgagaaca 300

tgagagttaa gcttccccac ctgatcagag cagtccgcag atcaggccag attgtgacat 360

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<223>      unsure at all n locations
<223>      Clone ID: LIB22-082-Q1-E1-F12

<400>      3677
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1784

<210> 3678
 <211> 433
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-082-Q1-E1-F2

<400> 3678
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 tagcactctt tttccctcc taatatccct cactccacac ttttctncta tatcttctcc 120
 tcaacttgga tatgggggtga agccgtagag gtcagtgtcg ggaaatgggt tcccggagat 180
 tcacaaagcc acatcaccca ctcaaaccct ccactctaac cagcangact gccattggta 240
 tgaagaaacc atcgatgatg atctcaagtg gtcttttgcc ctcaacagtg ttctccatca 300
 aggaactagt gagtaccaag atattgctct gttggacacc aaacgttttg gaaagggtgct 360
 tgtgattgat gggaaaatgc aaagtgctga gagagatgag tttatctacc atgaatgttt 420
 gatccanccc gct 433

<210> 3679
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-082-Q1-E1-F6

<400> 3679
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 ctcttcagat tcctacactc caacaaatat aagtttcatt agattctttc ttagctagag 120
 aatgaaactg attgagaaga cgatgagcat gaaccagttt aggactatgg aggaggagaa 180
 gcaagacggt ggtgagcttt tccataccat cgaggtagct aaagttgacc ggaacaacgt 240
 gtctcagccg ccgcccgtg ctactgcagc actgctagaa gttcccgtg atgaacttaa 300
 cctaattcca ccgttgaact tttcgatggt cnataatggt atattccggt ctggattccn 360
 ggactcggcg aacttcnct tcagcaagac tcttggcctt cgctcaanca tatcgttgtg 420
 tccagagcca tanc 434

<210> 3680
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-082-Q1-E1-F8

 <400> 3680

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cgtctcgggtt tcgtcgtctg atgtcaacga cggcgatgat ctcgtgatcc gtcaggtggt   120
tgggtggagcc gagcctcagg ttttgacctc agaggatcac ttttctctct tcaagcggaa   180
gttcgggaag gtctacgcgt ccaacgagga gcatgacnat agattctcgg ttttcanagc   240
gaatctcagg cgancgaggc gtcacnagaa gttggatccg tcggcgactc agngngngtta   300
cgcagttctc agatntgacn cggctctgant tccgtaagga agcacttggg nggttacaan   360
tgggctttaa gcttccnant tgatgccagc agggntccca ttctccc                       407
  
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<210> 3681
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-082-Q1-E1-F9

 <400> 3681

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caaaatttta tcatatttct cgatagagaa aaatcattaa ctaaatatcc attcccactc   120
aaaaccctaa aaaagagagc ctcaaatct ttgagtgttt tgcgtcgtcg gttttaaaca   180
aaaagggttca ataacttttt ctctcctttg tttctttttt gtttattatc tcctctcatc   240
ccattttccc aacacgacgt cgttacagat tcctccgatg gacttcccgg acgatcaccc   300
ttaaccacct tacaaaacga cgacggagga agaaaaggaa ccggtacagc cggagcgggt   360
aggggttaaac cgtgggttcac ttggagatca agatccgaat cggacttcaa atcgttttcc   420
ggttaaccaa gaagagtcct t                                           441
  
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<210> 3682
 <211> 383

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-082-Q1-E1-G2

 <400> 3682

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 ttatttttatc aaaatggngc ttatgaatgg aagcatgaat cnatcatcgg tcaaatacatc 120
 gatgatcaac caccgtcaac canactttctc ctccgccgctc tccagaccca cttcttttccg 180
 gatctccgcc gtgcaaaccg acccaaaaaac accaggctgc ttcattcggcg tcggcggcga 240
 cgactactcc ggnaacgttg acgaagcccg ttggaggttaa ngtgggtaaa ggaaaatggg 300
 caccagagag ttggaggacg aaganagctt tacagnancc cgggctatcc agatttagct 360
 gcgcttgaag gctgtgccag acn 383

<210> 3683
 <211> 367
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-082-Q1-E1-G8

 <400> 3683

 acgcgtgggc tctctaactt gaaagttggt tccttttttt gaatctgagc tggtttttga 60
 attttggtgt caagatttgg aatttgaatc tgtagtaaga ttcaggttta gtgggggagg 120
 gaacaagttg gaagcttttg ctagttttgt caaagggtgc actaaagtac taactatcag 180
 aaaacatttt cagccagaag cttggtgatg tatcttcaga ttttcaacaa cccatctcat 240
 ggcttagctc atttatgcta ctctagtcgg ggtttcgtgt agggtaagac tgagtcgtgt 300
 ccttgccatg ccaccgtctt cagtcctcct tgcatatgga cgaaagcaat gatcttccca 360
 agccang 367

<210> 3684
 <211> 460
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-G9

<400> 3684

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gtcgcaatct caaccatatg gagaaagaca tggcaatgat gggagacaaa ctgatactga 120
gaggcttgaa attttatggg ttccatggag ctattcctga agagaagacg cttggccaga 180
tgtttatgct tgacatcgat gcttgatgt gtctcaaaaa ggctgggtcta tcagacaact 240
tagctgattc tgtcagctat gtcgacattt acaagttagt tttaattact aatatgagag 300
gatttgctag agatagttaa ctaaattctc ccctttactc ttgaccaatc catttttatt 360
gtgacctcat ccaaaaatga caagctttgc ttatataaca atttgtcanc actatctgtg 420
tcactgagtg atgcattgat tataggatat gaaaatgatt 460

<210> 3685

<211> 454

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-H10

<400> 3685

aggcanaggt taacggggccg acccagcgt cnaagagaga cacacgcaga ttttgagctg 60
cgtgctctgt ttttaagcttg aaggaggaaa aacatggcag accaagaatc aagataagaa 120
cattgagatt tggaagatta agangctaata caaaggactt gaaaccgcaa gaggtaatgg 180
aacaagtatg atctctctta taatgcctcc tagagatcaa gtagctcgtg tcactaagat 240
gcttgctgat gaatacggna ccgcctcaaa catcaagagt cnagtgaatc ntcaatctgt 300
tttatctgcc attacttctg ctcaacanag attgaangct ttacaacaaa gttcctccga 360
atggnccttg tctcnatact ggaaccattg ttactgatga nggnaangng aagaaaagtga 420
ccaattgatt tcgaaccctt ttaaaaccga ggan 454

<210> 3686

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-H11

<400> 3686

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gtgaacactg aggcccgtag tttatctctg cagaagcaac tccagagata ttctccagtc 120
accctcgaag ccaagttgac agaactttct gaagcagatc agaaagcggt gggctctaatt 180
gtgaaggctg caaaaattat ggacgatata ttctatgagc aggtttggaa cagcaatcca 240
agccctaaga gattggctga aggatcatgc caatgcatca aaactggaca aactaaaatg 300
ggattacttc acgatcaaca aaagtccatg gtcgtctctt gatgaaaatg aagcattctt 360
gagtactgcg gattcagctg taaagttgct tcctggagca acaaaagcca taanctgggt 420
ggaaagggtc cttgaatata gaggcgcctt ccanttgact aaacca 466

<210> 3687

<211> 401

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-D6

<400> 3687

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caccggacgt ttcaaatacca tcctccgata actatattcg tttcggttaga tctagatctg 120
agcgtcgggtg agagattttc tggatctgtg atacgttcca ggaaacatgg ngacnatgaa 180
aagtttgata ggtctgataa acaaaatcca gagggcggtg actgtcctcg gagatcatgg 240
cgggtgaagga atgtcgcttt gggaagctct cccaaccgtc gctgtcggtg gtggccagag 300
ttccggaaaa tcttcagttc tagaaagtgt tgtgggaaga gattttctgc ctctgtggatc 360
tggtatcggtt acaagggang gcattgggtg ttgcaacttc n 401

<210> 3688

<211> 440

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-F5

<400> 3690

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ttattctccg gcaccgccac atcatcaaaa acctcaaact tcaactccgg caacatctcc 120

tccttcctca tctcacaat gttatgcaac acacaacaag ctccaagcac gtacggcaga 180

tcctgaagct tcacctccgt ccgtttctgc aaacaagccc accgtccttt gagcctctca 240

aacgcagccg tcgcaatccc ctgaatctct ccgatactct cgttaaaccg gtgctgcgtc 300

cacgtcagat tctgtctcgt gtacggtaca agaagataat caagtcaacg gaaacccaga 360

gtttccaact atccagctgt cacgtaacat cccanngcgc cgtcttttgc cgtgnaaagc 420

gaagatt 427

<210> 3691

<211> 491

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-G1

<400> 3691

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cgggtgaaac ttgttaccct tgttcaaccg ctctcaccg taaagctccc tctctctctg 120

agattattgc tctgttctct cttggaattt atgatgggtg tcaaaaagaat gttgtcaaga 180

aacgtgtgtc ttttgctgaa ccggtagaag aagtcaaacc aatagaaacc attaaagagc 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnca 360

gttcaangct atggaaatga ggaatatgaa gtcgtagcat aaaaggagaa gtgaaagctt 420

tgtaagttcc gtctgggttac ggattagaan gcgaccgatn tntctgtgaag gttnatattt 480

tgggaggggtt a 491

<210> 3692

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-H3

<400> 3692

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gtggaatggg ccattgcgcg agatgataaa caaacggag atcctccaca aagctatggn 120
agagategat aggagtcgtc ggnaaagaaa gattcgtcca agaatecgat ataccaaaac 180
ttaactatgt taaagctatt atccgagaag ctttccgtct tcatccccgt cgcccgctt 240
caacctccca cacgtggcac tctctganac gaccgtcgca agttancata ttctaaaag 300
gaangtcaag ttttacntan gccgttacgg tctttggnnc gtaaacccca acngtttggg 360
tctgatccac tntagccttc aanccaagna aagggcatct caatggagtg tttcggnag 420
tga 423

<210> 3693

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-H4

<400> 3693

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gcttttaacc tcagccgtta aatctttctc cgatcatgcc ganaagaaac atcgccattg 120
gnggagtcca agaagaggte tatcacecca atgcacttan ggcgggcgctc gctgagtta 180
tctcgacttt gatcttcgtc ttcgcgggct caggctccgg aattgcttcc aacaagatca 240
ctgacaatgg ancaacnact ccttcgggcc tcgtcgncgc tgccttagct catgctttcg 300
gtctcttttc gctgtcgcnt gtttggcgct aacatttccg gtggccangt taccctgctc 360
gttaacttcg gtgtcttaca cggnggtaan atcactctcc nccgtggnat tcctacngg 420
attgctcanc tttcttgggg tcccgtcggc cggctgtgtt tectncct 468

<210> 3694

<211> 423

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E2-A1

<400> 3694

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aacaatcgtc tccccattag gcacattggt gagggcaggg tagtctcgtg agttctcttc 120
tcctgagtgt aactgtgggt aaaagcttag ccaagatgca gggggagagg gccagtcttg 180
gctatttatc agaggccttg aactttgagc atggttcttc ttcaagtaat ggtgtgatag 240
atcattggga gaatattcac agtcttggtg ataatgactt gcaggattac atgattgcaa 300
attctgaatc aaatacttcg cttgcaaact cagtttatca cgagcaacaa ggtttacgca 360
gatttagcct tgggtgangct agctctantg gcacgaaagg atgaaacctc caagtcacaa 420
atg 423

<210> 3695

<211> 394

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E2-A11

<400> 3695

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tttgcttcac cgaantaaga nagttgattt cattgaacaa ttcaatgaaa agcttctagt 120
tgagcaagag ancgagaatc tacggatact tgacgttcga aangctgagc tgatagaagt 180
tagcagaact gacttcatga caccatcaag cattcagnat ttttgtatga gaatcagttg 240
ttttnaagat tcaggaaccg anatgtntct gtgtggaatt tccgcggaga gcttgtgacc 300
tcgtttgagg atcatcttcn ttggcntcca gactgtaaca cangnaanat ctacataaca 360
agcgatcaag atctgatcat cncataatgc aaag 394

<210> 3696

<211> 417

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-A6

<400> 3696

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taccatctcc gcaaaaccct tcagaaaatc agagagtata ccggaaagca gcactcggat 120
gaggatatct ttgccgtcta taaggattcc ttcaatgatc ctcagagac cgctcagaag 180
ctcctcttct tagatacatt tcatgagggtg agaagtaaaa gggagaaaaa gaaggagcct 240
atagtgccag ttacacaacc aagtggcaga ggtggtcgga ggaactttgc ttcaagtaac 300
tcttatcaag gtagtggaag aaatgcttct tttaaaaggg aaaatggagc taatcatgta 360
acaagagggt ctagaactgc tcagcctgcc actaacaag caaagcaaca tcacagt 417

<210> 3697
<211> 400
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-A9
<400> 3697

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ccagatgtgt ccggttggtt tacaagtccg gtcacgtaac gggaaacgtg tagtagcctg 120
taaaagtgct tgctctgcct tcaattcacc acagtactgt tgcaccggct tgttcggtaa 180
cccacagtct tgcaaaccaa cggttactc caaatcttc aaagtcgctt gcccaaaagc 240
ttactcttat gcttacgacg acccaaccag tatcgccaca tgttccaagg ctaactacat 300
cgtcaccttt tgccctcatc atcgccatta aattagccag taaagaagaa gaaacatttc 360
tctattaaca acaaactcct gtcangtttc caaattcctg 400

<210> 3698
<211> 444
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B3
<400> 3698

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tcgcgtctat ggcggtcaaa tgtttctctc tttatctgat tctggcggcg attgtaatcg 120

tttttgcttc tcacctgaat ccaatcaatc tcgccggagt gaattcacct tcttccgggt 180
 gactcgtcgg acttagtccg acctttcaat tcgtagattc tgtttacaat tcactgatcg 240
 ttgattaga aatgggttac ttgttcttct aagtctctct ttagctgaaa gtttgttgct 300
 ttacgactct tcgatttacc cttacttggt caagttcttc atcaaattcg taggttatgg 360
 ggataaagaa tcactttcac ttactccaac caagttggcn 400

<210> 3703
 <211> 470
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-H2
 <400> 3703

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 aagaaaatct gaaagcaaag cagagagcag ctcccttccc ctgnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnntcat cgcagcttct cctccgacca tttgactgcy 180
 actgtgatta caacacaccg ttgatcctac gaaaaagagg taatggatac tggcggcaat 240
 tcgctggcgt ccggacctga tgggtgtgaag aggaaagttt gttatttcta tgaccctgag 300
 gtcggcaatt actactatgg ccaaggatcat cccatgaagc cccatcgcat ccgcatgacc 360
 catgccctcc tcgctcacta cgggtctcctt cagcatatgc angttctcaa agccctttcc 420
 tgccccgcga acgtngatnt ctgccggctt caaagccgaa caactatgtn 470

<210> 3704
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-H7
 <400> 3704

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 gaagtttaca gctgatgagc ttcgaaggat tatggactac aaacacaaca tccgtaatat 180

gtctgttatt gctcatgtcg accacgggaa atccactctt actgattctt tggttgctgc 240
tgctggtatc attgcccaag aggttgctgg tgatgttcgt atgactgata ccagagctga 300
tgaggctgaa cgtggtatca ctatcaagtc cactggtatt tctctctact acgagatgac 360
tgatgaatcc ttgaagagtt tcaactgggag ccagagacgg naaaccaata actcaacaaa 420
cctaattgatc cacctgggca cgttgaactt tcttcng 458

<210> 3705
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H8

<400> 3705
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gacgaatatt caaaaaaaaa aatttctttt ctctttctaa caccacagat ttcgcaatcg 120
tgttttgatc tgattcttcc aggattctcc cgggtggcgga gagaagaaac aaaggaaacc 180
cagaaagcat ttttctcaat ggcgtcgact acacgagaaa agtttgtatc tttcataaac 240
aacagatggc tcgtcttcgt ggctgccatg tggatacagt cttgtgctgg catcggttat 300
ttgttcggaa gcatttctcc ggttatcaaa agctccttaa actataatca agaaggagct 360
ttccagactt ggagtcgcca aggatctcgg tgatagtgtc ggattcatcg ccggtactct 420
ctcttgagat cttgcctccn ttgggcccgt ccttctggt tgggcgcgct t 471

<210> 3706
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H9

<400> 3706
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gtctctctat ctctctcttt cgtacacttc gcgcttctct tctgtcaga ggcgtttctc 120
atggctcctc ttactctctc cgttgatgtg aagagctctt cagcgacctc tcatgatgtt 180

tcnaagaggg taatgcagag ttcacagctc aaaataaaca aaggnttttt tgcattctgtt 240
aatacacaag aagataaacc ctttgatttc ttccgcactc tctttgaggg gtttatagca 300
ggaggtacag ctggagttgt agttgaaaca gctttatacc caattgatac tattaagact 360
agacttcagg caggcagctc gtggaggtgg aaaaattggt ttgaagggtc tttattcagg 420
attanctggg aatat 435

<210> 3707
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-A1

<400> 3707

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tgagttctct tctcctgagt gtaactgtgg ttaaaagctt agccaagatg cagggggaga 180
gggccagtct tggctattta tcagaggcct tgaactttga gcatggttct tcttcaagta 240
atggtgtgat agatcattgg gagaatattc acagtcttgg tgataatgac ttgcaggatt 300
acatgattgc aaattctgaa tcaaatactt cgcttgcaaa ctcagtttat cacgagcaac 360
angggtttac gcaagattta gccttggtga ggctaagctc ctaagtgggc acgaaaggat 420
gaagcttcca antcnaaaat ggagcaaacg aat 453

<210> 3708
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-B3

<400> 3708

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ccgcttcac tttttctccc gtaaagctct cgcgtctatg gcggtcaa at gtttctctct 120
ttatctgatt ctggcggcga ttgtaatcgg cggcgtcacc tccgagtaca tagagtacaa 180

cacaaaaccg agaatcggtcc ctgagaaaat caatgttcac ttagttcttc actcacacga 240
 cgatgtaggt tggcttaaga cggttgatca gtacnacgta ggctccaata actccattag 300
 gggaacttgt gttcagaatg tattggattc tgtaaatacgc ttcattgctt gatgatgaaa 360
 atanaaaagt tatttatgtt gaaatggctt tctttcaaag atgggtgggag gcaaacaaaa 420
 cantgctaan gaaagttaaa gtcaagaagc ttgggtgant ctgggtcaact tgagnttcat 480
 aaaatggtg 489

<210> 3709
 <211> 336
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-081-Q1-E1-B5
 <400> 3709

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 ccccgaaattg aattagttcc aaagttaggg tttttctctc tcaaattagg gttttgcccc 180
 aattgtgttc ttatattgaa ttaccattt gcgcaggta tgtgggtggag gttgtttcca 240
 atttaaagta tgtaccttta gggtangaaa ttaggcttat ttgtttctcc agtgggtttc 300
 attgtagana caaattgaat ttangtggt aatgtg 336

<210> 3710
 <211> 413
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-081-Q1-E1-B6
 <400> 3710

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 ctttcattct ttcttcttcc aaattctggg ttttttcaca gatcgttttc tcagattttg 180
 actctttttg gtgttggtgt tgttcttctc cttcgtgaag tggaagaaga anataacaaa 240

actggggtttt ttatatctgg aattctgaag aaattcttca cggatttgat ctgttttaaac 300
 tanaaaagtc ttgattttta gaaatnagct aaaaataaga cacggtttan gggtttangg 360
 tttgactaga aacaacanta ctgaaanggg gtgtgaggtt tcaaagttan ggt 413

<210> 3711
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-081-Q1-E1-C5
 <400> 3711

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 atggggaaca agaaatctgc anacagataa ggcgtgaaag attctgacga gttaaaacgt 180
 gtgaagtggg tttttgggta cgtatcctct gcaccagctt ttttagctgta natantggac 240
 tacttttaag tattatatat gctactgcaa atttcaaaaa gttaangaat gaaaagaggt 300
 cactttcttc ttctctctgt gtggaatgna aagccaanag tcntcaaggg ncantgatgg 360
 acaatganta tcgttttttg ctgaagtgtt ggntggtgaa atcacaagcg c 411

<210> 3712
 <211> 396
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-081-Q1-E1-C6
 <400> 3712

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 agctttctatg aagacgcaca naccaaacca ggccaattcc ttctcaacca ttcgctagtt 180
 cttcaccttc ttttcactct caagctgac ccactcaccg gtttgcttca tcgacagcta 240
 aacgaggacc tgttcttatt gtcaagggca aaaaaacaca aaccaagttt ttcttggttc 300
 gtcttccaca aaacatgcc cataccatcc ttcagatnaa cctccacgag gacaaagtca 360

tgaacagatt accatctggt cctgccagt tnaaag

396

<210> 3713

<211> 443

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-D3

<400> 3713

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cggaaacgat ttcttcgccc attccaagac tttcttcct aagcttttta acagatccgg 120

tgaaaatttc aaaatccgaa gaattctcta aagctagggt ttcttaattc acgagacgga 180

ggtgatataa ttcccccccgc tgcgtagctat gatgatttcg agaggtttgt ttggttggtc 240

tccgccgcac atacaaccgt taactcctgt ttctgaaagt ttccgagcct cctgagtctc 300

catctcctta ccttgatcc tgggtgctgac cacngtggtta caggaacagc ggcgcaaagc 360

ngatgatgaa ggaggaaaat ggaggagcc ggaggatg gagcctctc ctgctgctgt 420

tcctttctcn caagcctatt tgc 443

<210> 3714

<211> 426

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-D8

<400> 3714

agcatacaat acaatgtcta ctcttgtttt attcctcaa cttttttcca tcctaccatt 60

agcacttggg ttgaaccacc caaattgtga cctgaccaag actcaagacc aaggctctac 120

cctaagaatc ttccacatag acagcccttg ctcccccttc aaatcatcat cccactctc 180

atgggaagcg cgtgtgctcc agacgtggc tcaagaccag gcccgctccc agtacctgag 240

cagcctcgtc gccgggagat ctgtagtccc cantgcctca ggggcgtcaa atgttgcaaa 300

gcactacnta cattgtcaag gctttgatcg gtactccggc tcagccgctg ctcctagcca 360

tggacacgan cagtgaentg gcttgattc cttgctcngg ctgcgttggc tgtcccttct 420

aacagg

426

<210> 3715
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-E1

<400> 3715

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gaactgcttc agctaaggan aaagacaaac tgtctctggc ttaanggaag ggttccataa 120
cgggagggaa aatattgtcc atgaaaatac tagcaacact gataatgata atagcaatac 180
ttccacaaat gctcttgcaa ttgcaatcac tgctgggaat tctcagcgtg taaccnatga 240
gagttcaact tcttccanac aagggaatga tantcccatt ttgcctgata actcagaaag 300
cagcctanca aatgcggnta gagactggga acgaggatac cantcaaana aangatctgg 360
cangaaaatg gtcccagtag atgaganggc caaatttggg gcaagngaac tctaaacgca 420
atttgantgg gtttg 435

<210> 3716
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H1

<400> 3716

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actacaaaag tagaaagaag aaaaaagaac aaagtatcag ttcttgaata ttgcatcaa 120
tggaggaatc caaaacacct cacgttgcca tcataccaag tccgggaatg ggtcatctca 180
taccactcgt cgagtttgct aaacgactcg tccatcttca cggcctcacc gttaccttcg 240
tcatcgccgg cgaagggtcca ccatcaaaag ctgagagaac cgtcctcgac tctctccctt 300
cttcaatctc ctccgtcttt ctccctcttg ttgatctcac cgatntcnct tcgtccactc 360
gcatccaaat ctggatntc cctcaccgtg aatcngtnaa aaccggggag ctccggaaan 420

ttcttttnanc tctttgntcg gaaggaaggt ctttttng

458

<210> 3717

<211> 458

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-E11

<400> 3717

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tctttatatt ttgaaaaaga taacaaacat cgaaatccat catccactgg catagagatt 180

tgtgaagcag aagcagaagc tgctgcttca gctattgctg tggcagccat aactaatgat 240

gaaaccagtg ggaatgcctt gagtactggc tctgtattac ctggtgaaac caaaatttat 300

ggaggaacag agttagatga tggggcagca agtgggtactg ttggtgggca gactagtcga 360

tcaaaagctg aggaatctct cattgtttct ctaccagcag atctttcagt ggacacccca 420

atctctctgt ggccacaatt accaagtcca canaatca 458

<210> 3718

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-E4

<400> 3718

acgcgtgggc ggacgcgtgg gcggacgcgt gggggcaaatt tttccattt ttgattccga 60

agataataga tattatcaac agaggataag gataaaaccc agaacaatca ttataattta 120

gtggtgaagt tgaccaaatt tataaactga tccaatttta aaatctaaga gatatggaga 180

acatggacga tttctcaccg gagaatgttt tagcaccacc accaccacct cctccaatga 240

agaagtcaac ggatctgttt atgcaaagaa gcaatagctt tgtttctaaa gctacgagag 300

attcatggga tcgtatgttc gacgaagctc atggagctga tgttttgatt catactgatg 360

ataatggggt gattacgccc aatccnaagt ccancggaat gggcttc 407

<210> 3719
 <211> 371
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-E7

 <400> 3719

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 taatctttctc aataatctcc acatctttct tcaccgttga atcgattcga ctattccctg 120
 attcattcga cgatgcattc tcagatttaa tggaagctcc agcatatcaa aacgggtcttg 180
 attgctctgt tttagccaaa aacagactct tgtagcttg tgatccatca gctgttcata 240
 tagctatgac tctagatcca gcttacttgc gtggcacggt atctgcagta cattccatcc 300
 tcaaacacac ttcttgccct gaaaacatct tcttcactt cantgcttcg ggtaaaaagt 360
 canggggttcc c 371

<210> 3720
 <211> 405
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-E9

 <400> 3720

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 gtgcttccgt cggaatccaa ggaatcgctt gggctttcgg tggatgata ttgctcttag 120
 tctactgtac cgctgggtatc tccgggtggac acatcaaccc agcgggttact ttggtctgt 180
 tcttagcccg gaagctgtcg cttactagag ctctgtacta catagtgatg cagtgccttg 240
 gagctatctg tgggtgctgga gtgggttaaag gggtccaagc ctaagcaata ccaggctcta 300
 ggaggaggag ctaacactgt ggctcatggt tacaccaagg gaagtgggtc tggagctgag 360
 atnattggca cattcgttcc tgtanacaca atcttctca acaac 405

<210> 3721
 <211> 405

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-F1

 <400> 3721

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 atgggagaga attaccaatg atgaatggta tcaaagaaga tatcaaactt attggagttt 120
 tggattctgg gatttgttca gaagctctct ttagtcttgc ttctcgtttc aaatcattgc 180
 agatgatgtg taaaacacat tttgaagagg aagagaaaga tttattgcca atggtggaag 240
 ctgcagaaat ggggaaagag aagcagaaga aattgatgaa tcaaagctta naagttatga 300
 gtgggactca ttctaactcg tttgatttcc tactagaaag ncccantcca caagaagcta 360
 tgcctaanat nnnctngccc angacattgg gggatccaaa anctt 405

<210> 3722
 <211> 408
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-F10

 <400> 3722

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 tgaaaccgga gcattcttct tctgtatcaa tggaccggaa atcatgtcga aactagctgg 120
 tgagagtgag agcaacctca ggaaagcatt tgaggaggct gagaagaatg ccccgcttat 180
 catattcatt gatgagattg actctattgc accaaaaaga gagaagacga atggtgaggt 240
 tgagaggagg attgtctctc agctccttac gcttatggat ggactaaaat cacgtgcca 300
 tgttattggt atgggagcaa caaatcgtcc caacagtatt gatccggctt tgagaangtt 360
 tgggaagattc gacanggaaa ttgataaccg tgtttccgaa tnaaattg 408

<210> 3723
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-F12

<400> 3723

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ggattgtaaa ttgtggcatt aagaacgatt gtgatcctgc attggcactt cttggagact 120
atatagacaa agaggattca tctgtcagaa tcggtgctat catgggtctt ggaatttcat 180
acgcaggttc ccaaaatgac cagattcgaa acaaattgtc cccgatactg aatgatgcaa 240
aagcgctct t gatgtgatt gcatttgctt cactttcttt gggaatgata tatgttggtt 300
cctgtaacga agaagtagcc cagtctatta tatttgcttt gatggatcga agtgaggcag 360
aactgggtga tgccctcact cctttcctgg cactngggcc tggg 404

<210> 3724

<211> 456

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-F5

<400> 3724

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ctcccagacc cgaccggttt cctgttacct gactcgatc cgacgccggt gctctcttcg 120
tcctccaatc aaaaggcgag tgggtggcacg ccggatttca tctaacgacg gcgattgttg 180
gtccgacgat attgacatta ccatatgcgt ttagaggatt aggatggtgg ttagggtttg 240
tttgtttaac gacgatggga ctcgttactt tctacgctta ttacctcatg tctaaggttc 300
ttgatcactg tgaaaaatcc ggccgccgtc acatccgttt ccgggaactc gccgccgatg 360
ttcttggatc tggattgatg ttttatgtag tgatctttaa tcaaacagct ttcaacacct 420
gggaattgga attgggccaa ttcnacttgc agggtc 456

<210> 3725

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-F6

<400> 3725

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caaattcttc tgttttaatc ttgggatggc ctcggtgggc atagagccta gtgccgcggt 180

tagagaatct actggaaacg ttactgatgc tgatagatta cccgaggaga tgaaggacat 240

gaaaattcaa gatgataaag aaatggaagc tacgattggt aatggcaatg tgactgagac 300

tggccatata atagtaacta ctataggagg aagaaatggc cagccaaaac agacaatcag 360

ttacatggcg gagcgagttg ttggacatgg ctctttgggt gttgtgtttc anggcaaag 420

tttaaaaaca aggagaaact gttgcaataa agaaagtctt 460

<210> 3726

<211> 398

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-F9

<400> 3726

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tcttacggcg gcggaagtca tggcgaacat agaatcagaa gcagtcgatt tcgagccaga 120

ggaggatgac cttatggacg aagaaggtag agctattgac ggagctgatg tttctccacg 180

cgcgggacat ccgaggctta agtcggctat tgccggagct aatggcgaat cagcaaagaa 240

gaccaaaggc cgtgggtttc gcgaggagaa agattccgat cgtcagcgtc gtctttcctc 300

acgcgatttc gaatcacttg gttcagatgg ccgtcctgggt ccgcagagat ccgttgaagg 360

atggattatc ttggtctctg gagttcatga aganaccc 398

<210> 3727

<211> 412

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-G10

<400> 3727

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 ttgcatctca aanaattacc atgttcaaga atattagtgg ccaccaggga ttttttcttt 120
 ctgggtcaag gccgggggtgg tgtatgttgt tcagagagcg actacnattt cattcacagc 180
 tgtgcgacgg atcaattgcg gcctttactg ttcttcacaa tgtgaattgc aatcacgggt 240
 tcatatatgt cacagcacag ggagttttga agatttgcca attaccttca gcatcaatct 300
 atgataatta ttggccagtg cagaagattc ctctaaaggc cacacctcac caagttactt 360
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<210> 3728
 <211> 443
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-G2
 <400> 3728

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 ctaacaggat tcttacggaa ggctaatcgg gttctaaggc aagcaacact gattactatg 120
 aataccttgg taacagccta tgggtgataaa attgggttcag aagcttatga agttattctt 180
 gtggagcttt catctctgat aagtgtttca gacctgcaca tgacagctct tgcactcgaa 240
 ctctgctgca ctctgatgac tggaaagagt tgtagtgaaa atatcagttt ggcggtccgc 300
 aacagagttc ttccgcaggc actaacttta gttaaaagcc cattgctcca ggggtcaagca 360
 cttttggatc tgcaaaaatt ctttgaagct cctgggtgtat catgcaaata cgagtttcta 420
 caccttgctg ggnatcaatg cta 443

<210> 3729
 <211> 457
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-080-Q1-E2-G4
 <400> 3729

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gtcatgaccg ccggtgaaca aatcatcact ctcatgtcg attctcagga gactgttgag 180
aatgttaaag ccttgctcga ggttgagtcc aatgttccga ttcagcagca gcagctgttg 240
tataatggaa acgagatggg aaattccgat aaattgaagt gccttgggtg ttaaggatga 300
tgatttattg atgatgatgg ttccaatgc ctcatctggg tgccactaag tgcgggcggg 360
ggaaatggan ttggggcatg aaatcccgna tgggggtcaac ctttggancc ctg 413

<210> 3732
<211> 387
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G9
<400> 3732

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tcatttcaga ctcttgtcac agtggtggcc taatcgacga agccaaggag cagattggag 120
agagcactaa gaaagaagcc gaggacgaag atgaatctga agaatcttct tcaagattcg 180
ggtttaggaa gttcttgcgc agcaaagtgg aaggcgccat cgagtctcga gggtttcaca 240
ttggagggaa caagaaggat gaagatgagg cggaagaaat cgagactaag gagattgagc 300
ttgaagacgg agaaacgatc catgccaaag acaaattctt tcctctgcag accttgattg 360
atattcccaa gcagcaaaca ngggaat 387

<210> 3733
<211> 426
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C8
<400> 3733

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ctcgatatcg attcctcaga tctcaaagct cttcaggta tcgaaacaga gctcggagtc 180
aacagtcaac gttcttcggc cagtgatgtc aacccttgcg gtcgccgagg agttttctgc 240

667730-123456789

gagagacggc actctgccac caccggagaa tacgttctcc gtgtcacgag gtcgtcttac 300
cgatncagga gcttgacggg gactatctct ccggtcatcg gaatgttgtc ggaagctcaa 360
ggaacttact ttgtctaata accaagttgg gtcaaacgct gttccggtgg atatcttaan 420
ctgtta 426

<210> 3734
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C9

<400> 3734

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atcgattcct cagatctcaa agctcttcag gtcacgaaa cagagctcgg agtcaacagt 180
caacgttctt cggccagtga tgtcaaccct tgccggtcgc gaggagtttt ctgcgagaga 240
cggcactctg ccaccaccgg agaatacggt ctccgtgtca cgangctcgt ctaccgatnc 300
angagcttga cggggactat ctctccggtc atcggaatgt tgcggagct caaggaactt 360
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<210> 3735
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-D1

<400> 3735

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gagaaagact aaagagccaa aggtcgatgt tgtgactctt ggaccatctg ttcgtgaggg 180
agagcaagtt ttcggtgttg tccacatctt tgcttcattc aacgacactt tcattcatgt 240
tactgatttg tctggtcgtg aaactcttgt ccgtatcacc ggtggaatga aggtgaaagc 300

tgatagagat gagtcctcac cttacgcagc tatgcttgca gcacaggatg ttgctcagcg 360
atgcaaggaa cttggatatca ctgccatgca tgtgaagctc cgtgccacaa gtggaaacaa 420
agaccaagac acctggctct ggagcanaat ccggccctaa aanccctggc ccgttccg 478

<210> 3736
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-D2

<400> 3736

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gttgatccgt ttgaatttgg tgtttgttga ggcggagatc tcgaagatga agcagcttct 180
atgttatctt ccatggcttc ttcttctctc tcttggtgtt tcccctttta acgaggctcg 240
attcgttgtg gagaagaata gtttgctcgt gacttcgccg gagagtataa aaggaactca 300
tgatagtgc attggtaact tcgggattcc tcaagtacgg gtggaagtat ggctggtacg 360
gtggtttaac ctaaagagaa tcagaaatcg tgttaaggaa nttaacgaat t 411

<210> 3737
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-D9

<400> 3737

actgaaagca caagagataa gattagaaca gctaagataa ggttggtggc tgctagaaag 60
atgaaggaag cggccagaga ggctgaggcg gttgcaatcg cagagattga ggctgttact 120
ggaagtatga atgttggtta ggccgaggct gtgactatct ctgctgaaga gtattctgtg 180
cttgctcgta gtgctagaga cgcagaggaa gaggcgagaa agcgagtgga agatgcaatg 240
tcgagagttg aagaagctaa tgtttcaaag aaggatgttc tgaagaaagt tgacgaagcg 300
gctcaagaaa ttgaaaccag caagagagta ttggaggaag ctgtggagag agttgacgct 360
gcaaagtgtt cgaagatcga agcagaagaa gcgctgcgaa aatggcggtc agagaa 416

<210> 3738
 <211> 413
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-E10

<400> 3738

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 attgtcatct cctacttggg ctccattact ccagccaagt agagtttggt gcctctgctt 120
 tttcttacac cattgtccaa gctttctcct ttttcgaaga aatctggaga gagatatgtg 180
 ctgacatcaa ggaaggtaat cttagctcaa gaatcactct gcccaagatg agaaaagctg 240
 tattggctct gatcagacca aaccggtctc ttgctttctc tatcgaggag atctgcttag 300
 agctggaaac aaatctcgga tgggttcggt tgatttcaaa gctttggggc aaatgcaaaa 360
 tttatctcct caatcatgac gggttctatg ctgccgtacc tgaataagct gan 413

<210> 3739
 <211> 342
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-E12

<400> 3739

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 tgtattcatc tttgttatag agtatttggt attgtttgct ttcaaactct cattttttgg 180
 ggtcttctat caattgtttc ttgggtatct ctttgtgaaa taaaagattg gtaatatggg 240
 gtattgtttg ttttcatttt ccattgtgtac gtactttttn nnnnnnnnnn nnnnnnnnnn 300
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nn 342

<210> 3740
 <211> 436
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-E4

<400> 3740

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 cgatggtgga tctatgcctt ctattttccc gacgcactac cattggtata gcaccgagtt 120
 cgccgaagaa tctcgaatcg tccatgttta ccacacagtc ttccatgggt tctccgccgt 180
 tgttactcca gatgaagcag ataatctccg taaccaccca gcagttcttg ctgttttcga 240
 agaccgacgt cgagagcttc acaccacacg ttctctcaa tttcttggtt tacaaaacca 300
 aaaaggacta tggtcagaat ctgattacgg atcaagacgt aatcattggc gtttttgaca 360
 ccggaatttg gccgggagcg gangagtttc tcagatttta acctcgggcc aattccaaaa 420
 agggggagaa gcgttt 436

<210> 3741
 <211> 403
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-E7

<400> 3741

tcaccgtctc ctcaaatca caacaccaac aaaacaaaaa aaaggttttg atcaaagaga 60
 tcaactgttaa accctcacia aatttctca ggactaataa tctgcgatcg atcgctgta 120
 tgataagtct ctaaagaaga ttgatgattc tggattacat tatcatggga ggagcttggt 180
 caaggaagag agatcaacia gttgaggata ttttaaacag aggtgtctct ggaaaatata 240
 gcaagagttc aagttcgaaa tggttagcta cttecgcttc taggtctggc tccgatgta 300
 aacggaagaa tggagaatgc ccgtcgctta tggagctctg tgtccgcaag atacaggag 360
 gacattggnt agatatacca aggttctccg ganctaacct aga 403

<210> 3742
 <211> 394
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-079-Q1-E1-E8

<400> 3742

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ttgttttgtc tggtcctgtg ctaaataaac gggagcttga gggtttgctt ggtgatccac 120
tgttaaaatc tcaaatacttg cccacatttt ttgacattcg tagaggaatt gaaggatctt 180
tgaagaaggg tcttcnaaaa ctttgtgaag ctgcagatga agctgttcgt aatgggtccc 240
aagtacttgt tctctcaaga cagatctgat aatccggaac caactcgacc tgcaattcca 300
atgttggttg ctgtggggtg ctgttcacca acatctgac cagaacgggt cttcnggatg 360
tcancttcn ntanttcag atacaagctc antg 394

<210> 3743

<211> 415

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-E9

<400> 3743

acctctcctg atcccgtaat gaagaaaacg aagacgatgg tggcttccat ctccaccctt 60
attagacgga cctatccttc aactaaccag tgtaattcac tcgcgacgat tcaatcacia 120
acccaattgc ctgcggaatc tctgcaacat cattcttcag ctgaggagac actccgatc 180
tccgggagag ttttctgctc ggaatctggc gccggatgct ggaactgtgg cgagaaagct 240
gcctttttgt tctgtaactc atgccgtagc attcaacctg ttgatgactc cgtcgactat 300
tttcagattt ttgggcctgg agaagaagta tgagatagat cctggaagcc ttgaaggcaa 360
gtacaaagat tggcaaaaga agctacatcc tgatttagtt cataacaaat ctaag 415

<210> 3744

<211> 308

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-079-Q1-E1-F1

<400> 3744

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aacgtagctg acactgatgg atcaatcagg ggcattgagat ctaagattgc tgggttttctt 120
gcaagcaaca cacagcggaa ctggcctcga gatttgtacg agaagatagc tcgaagcttt 180
tgaatctaag aaattcgaat acttgtctaa aaaagatctt gtaagaagct gttaaaccga 240
tttttgttac ttaacctcga ggatcacttt ttgttnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnngg 308

<210> 3745
<211> 423
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F3
<400> 3745

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aaaaccctag aaacgaagaa agatcaagat gggtttgatt agcanagaag agataagcaa 120
aacaagaaga tattcatctt ctctttggag aggtatcaaa acgatctttg ttctcttcac 180
tatgtttctc tctttcatca tcttttctgc tccgatcttc ctgcgcgtcg ccgacgccgt 240
cctccccctc gcaatcctct catcctctc accctccctc aaccgcctat ctcttctag 300
ttttccggcg acgatttatt cttacctcag taactacgat ttccgttact ctctcatcga 360
catacctctc atctccataa ttagatttgg caatnaanta agcctttaac gggcttggtgta 420
ncg 423

<210> 3746
<211> 423
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F8
<400> 3746

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aagagagaga aatggcgacg acaacaacan aagcaacgan gacatcatcg accaatggag 120
aagatcagaa gcagtctcag aatcttcgac atcaagaant tggtcacaag agtctcttac 180

tcttgaggaa tcgtccattg atggctatca tcattgttta ttgtgttttt tccctccaag 300
 agatagcata caatgagata ttctcactct gggctgttag tgaccgaagc tatggaggat 360
 tgagcttctc atctcaagat gttggtgaag ttttaactat atcangactt gggcctc 417

<210> 3749
 <211> 494
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-078-Q1-E1-H7
 <400> 3749

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 aacaatttta tctgtggagt tttctggagt tgctagtga agaactctgtc tcacagaacc 120
 agaaatagtg tttgtgggag ttacatgttt tgcaatagag atgacatatc ggggtaatgt 180
 gcatgatttt agtggtgatt aangagtctg aagttgggan gaatgtcgga cttgtacatt 240
 catgagctan gcgattatct ttcggatgaa tttcatgggg aaacgatgat ggtatagttg 300
 ccagactcag cgtaatgagg atgngaggtc agtttccaaa ttcctagttt agtaaacang 360
 gaaagaaaac gaaacaaaat gatgataatg ggtaatggga ccaaaccatc ctaaaagnag 420
 taatacnttt tatcaanngn gnagaaggca anaccatgnt aacggaaaaa aatcccatgg 480
 gccctngacg aaaa 494

<210> 3750
 <211> 498
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-A4
 <400> 3750

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 gattcctcgg tggtgaaaac gttcttttga tcatcctccc taagtgggga gttatagcct 120
 tcaagttggt ggtaaacaaa caaatgggcg ggcgggtggga aaacgtcaaa gcccggtggt 180
 aaagccggga actggacggt gatgggatcc gatgggatca agaacaagtt caagaacaat 240

66733-16666666

aagatgttga taatgcctg cttcttgga caccctaacg aaaaacaaat catcttcccg 300
angatctctt cttgccaaac acactctact gcgacgtcgt ttggtttctc gttactcaca 360
ttganaaatg ttgactccga atangcctaa ccacagtctg aaccgggact anaccgggac 420
t 421

<210> 3753
<211> 308
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B2

<400> 3753

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tgggtgctact ttgtttgggt ctactcctcc tgttcctgac aacatcttgg ctcaagcctt 120
tcagacttct ccaggaactg ttaaacacat caaatccaag ttccaacca agaaatgac 180
atcacccttc ctttatattc attactacag ttctgttttt ttctaaaggg aagatctttt 240
tatcttcttt gatttgtctt ctgtnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnngg 308

<210> 3754
<211> 267
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B3

<400> 3754

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aaactatgtc tgatgatgtt attgtgaact agttttgagt tataacacta tttttactac 120
atctctgaaa agaagactgt tgatattagt tttgaagaga ttattcccaa acaccatttg 180
ttttggtcaa catgaacaac ttaattgttc tttgtttatt gttgcnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnngg 267

<210> 3755
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-B8

<400> 3755

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 aggaaacttt cttctcattt caattaaaaa atccattttt ttctctgggt ttttctttct 120
 catgtgattg tgtaattgat tcttatcggt ttctcgcaat cattacggct tcttctgaaa 180
 tcaacacgct caatttcctt ccttggaataa ttttggggtt ttgggtttgt tctgttttca 240
 ttcgtgtgag atttgattac ttaagcgctc agatgaaatc atgataatta agaagcacia 300
 gagagaggaa attagagtc ctttggtcaat ttattgggga acttgattgg gatttagtca 360
 gcttcaaagt gaggaactga agatggagaa tggccatgan gaaagattgg 410

<210> 3756
 <211> 415
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-B9

<400> 3756

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 tgagtcgttc actcgggtct aatctgggaa acgacgtcgt tgcgtctctc aggaatctgc 180
 aacttaataa agtgaagtct tctctttcgt cgtcatacaa caatcaaatac ggaggatacg 240
 gatccggatt cgggtcgcct cgtggatcgg ttttgggtcc tggtttccgt agcttaccaa 300
 ctacaccgac ccgacctggt tttatgaaca tttgggagaa tggcttgag gaagaaccgg 360
 cgatggaacg ggtcagtcg ggtcgtgaac tgcgagagca actgttcgag aagct 415

<210> 3757
 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-C10

<400> 3757

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tagtgctctt gttggcatca gaaatagtct tgatcctgaa cataaaaagg aatccatgga 120
aaaatactta ggccccgaca aacaaaggaa gcaggaccaa caccgataaa ctcagattat 180
ccatgttggg gtgacttccc ttttacatat agcatgtgta taggtttgaa tagagtaaaa 240
gtgcagaacc attcttttaa ccatcgaaaa gccaaagaga tgggaaaatt tttggatatag 300
aatataaatc ttttaaacad tatagaatca ttcagtttgt ttgtttcctg tacataaaca 360
ttttcgatct tgctccattg taaatttacc ccaccaagtt tgccaaatga gtgaaa 416

<210> 3758

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-C11

<400> 3758

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accaattgc ctgcggaatc tctgcaacat cattcttcag ctgaggagac actccgattc 180
tccgggagag ttttctgctc ggaatctggc gccggatgct ggaactgtgg cgagaaagct 240
gcctttttgt tctgtaactc atgccgtagc attcaacctg ttgatgactc cgtcgactat 300
tttcagattt ttggcctggg agaagaagta tgagatagat cctggaagcc ttgaaggcaa 360
gtacaaagat tggcaaaaga agctacatcc tgatttagtt cataacaaat cctaag 416

<210> 3759

<211> 461

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-079-Q1-E1-C2

<400> 3759

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aattgcagag ctataagaga aggaatgcaa aatgggtctc tccaatagca gctgttgtac 120
ctaacttcca tcttcctatg cgcagtctcg aggataaaaa caggacaaac acagacgaca 180
taagggtccct tagagtgatc acagccatta agacaccgta tttacctgat ggaagattcg 240
acctccaagc atacgatgac ttagtcaaca cgcagataga aaacggtgct gaagggtgtga 300
ttgttggtgg tacaactggt gaaggccaat tgatgagctg ggatgagcac ataatgctta 360
tcggccatac tgtaaattgt tttgggggaa ggatcaaagt cattggaaac actgggaagt 420
nactcgacta gggaagctat tcatgccact gagccaggan t 461

<210> 3760
<211> 475
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C3
<400> 3760

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aatgctctca cactcttccg tctccaaacc gacacacacg gcaacctcgc cggaaactgg 120
accggctccg acgcttgtag ctctcatgg caaggcggtt cttgctcacc atcttcacac 180
cgcgtcactg aactatctct cccttcctc tcttacgag gaccattaac ctctctctcc 240
tccttagacc aacttcgtct tcttgacctc cagcataaca gactcaacgg caccgtttca 300
ccactcacia actgtaaaaa cctcagactc gtttatctcg ccggtaacga tctctccggt 360
gagattccta aagagatata ctttcttaaa cggatgatac gtcttgatcn ctccgataac 420
aatatcccgt gggagttatt ncanggagag aattccgggg gttaccgggg gttta 475

<210> 3761
<211> 386
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C4
<400> 3761

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aagattcatt ttaccctaag aaaanaantg tcnaacattc ttcagaatcg gcgatcttcg 120
 ttttctcttt cgacgaaatc ttcattagcg agtcgtcaag caccatcttc atcggagaat 180
 tctgttaaac ttatgccggc gatgacgaan aaangagcac cgttaagtna cattaccaat 240
 kannanacg cctcacgatt acaaaattct gattcggtag attgttcaaa caagtcaanc 300
 gaaattgann gatagcacca agtggttgcg ttaatgccag tttctctanc aatctgcanc 360
 aaagcatagt tcctcanaaa gttgct 386

<210> 3762
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-C5
 <400> 3762

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 aagatactga tgatggcttg atagagatta cagtccctga gctggagatc acccgtgcag 180
 aagcagaagc agaagcagaa gcgcagtgtt gtgagagtga tgaggactta cccaattatt 240
 ctgacattga ggctatgata cttgacatgg acttggaacc tgatgatcaa gataattttg 300
 atctcgaagt ctccaagtat caagagccaa gacatgaaaa gaacaatcat aagacttgag 360
 caggctgctc attcatatat gcaaagagcc attgcttccc gtggtncaat 410

<210> 3763
 <211> 416
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-079-Q1-E1-C6
 <400> 3763

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 ttggtgaatg atcttgatag gaaagttagg cgtgggcgag aacgtcttgc acaagaagtt 180

tgaatgttct aaagctaata gtagttcact cgttgtgaat cgccctgtga ctgatcgtca 240
 caagttttga agcatacaga aaggttcttg agagtgtgt gaancggact tctaaactga 300
 aagacagacg ctttgttgat ttttttaaan nacagaggtc gttncctttac tacgaanccn 360
 tgtcctcctt tttggnnacc agnataangn acccagttnn aggttgtaga acntncaggc 420
 atttgtncct cctttccaca acaagganga cga 453

<210> 3766
 <211> 480
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-078-Q1-E1-F5
 <400> 3766

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 aagactatgg ttaaattgggt gaagaagaat atggatccat tgaagacgag ggttttcttt 120
 gctaccatct ctctactca ttacaagggc gaggattggg gaggcgaaca atgaaaaaat 180
 tgttacaatc aancgacacc gatccangac atgaaccatt ggccatcana ctgcagcana 240
 accttaatga aagtatang agangaatta gnccaaagag canagtttcc ggtgacngta 300
 cttaacatta caacaactct ctggctatcc ggaaaagacn cgcacacgtc aatccaanac 360
 gaaaccattg gaaccccat ngaccgaaan ggatcaagct agncaaattcc cggctaagct 420
 actcaagact gtatnacatt ggggtgccttg ccctggncnt caagatactt ggaaccancc 480

<210> 3767
 <211> 507
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-078-Q1-E1-F6
 <400> 3767

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 aatcttccac catgggaaca aagtttttag ctctgggttt gtctctgtgt cttgttctct 120
 caagcttcta tcaagtttct tgccaggatg aaggaactgg aagtttgagt acttttagatc 180

ataagcgatt gatctctccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnngg cgctctcttc tacttctctc gatccgaccg 180
 tgaatcacta tcggagcaat gactatgatg actccgccgc cgctagatca gcaggaagac 240
 gaggagatgc ttgttccgaa tccggatttg gtcgaggagac ctcagcctat ggaagttgcc 300
 caaactgatc ctgctgctac cgctgtggag aatccaccac ccgaggatcc tccaagtctg 360
 aaattcacgt ggaccatccc aatgttcact aggctcaata ccaggaagca ttactcctga 420
 cgtatttggt gtaggcggtt ataagtggcg tata 454

<210> 3770
 <211> 474
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-078-Q1-E1-G12

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 agtctctcaa tgggcacaaa tttgatgata aggagtggta tggttgtaga gccagaaga 180
 agtcagagag ggaaacagaa ttaagggtcc gttatgaaca gaatttgaag gaagctgcan 240
 gnaacttnca cagttcaana cttgtatggt anagantttg ggtcctaagc atttcagatg 300
 aggaaactta aagagatctt tctccctttt ggtaccgtta catcctagca agggatgatg 360
 cggattctaa tgggaacaag caaaaggctc aagttttggt gctttcncna actcccgaa 420
 aaagcaactg aagctatttc acagttnagc ggtaaaatga tcnaaagcaa acca 474

<210> 3771
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-078-Q1-E1-G2

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 ctaaaaagat tttggatctg atgaatgttg agaagctcac tagagaaaat gtggccagtc 180
 atcttcagaa attccgcctt tacttgaaga ggatcagtgg tgtggctaata cagcaagcta 240
 ttatggcaaa ctctgagtta cattttatgc aaatgaatgg acttgatggt ttccatcacc 300
 gcccaatccc tgttggatct ggtcagtacc atgggtggggc tcctgcaatg agatcttccc 360
 tccaaacggg attcttggca aactcaatac tcccttcggg ggatcgggtgt ccgcaaccct 420
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<210> 3772
 <211> 459
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-078-Q1-E1-G3
 <400> 3772

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 acagtgttgg ttttcagctg cagaattggg gaaaaaagtt tgggtgaattt caggagcaga 180
 gtatttaagt aattttgggg aattagttag aaaatggagg agaaagggtga aataagtcca 240
 agtgggggtcg tcacagttaa gggagatgaa gctttggttc caagaacaga gtttcaacaa 300
 aaccctagtt ttctccaatt cgtgagtccc acaacggtag tgactcctct ccctcctcca 360
 ccaagctccg tcttccggct ccggtaccaa ccaccgtgac tcctgggtca gccacaagca 420
 tcaaccggat cagatccacg aaaaaagaac agaggggaag 459

<210> 3773
 <211> 435
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3773

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tanattcggt ctcagttttc gtgttggcta atggcgagcg cggcacgggg agagagcagc 120
aatccatacg gcggcggatt gggaaccgga ngaaagttcc ggaagccgac ggctcgtang 180
tctcagaaaa ctccttatga tgcaccaacg acttctgtga ggaacgctgg acttggtggc 240
ggagatgtca gaggcggcgg ctggttgtca aaattggtgg atccggcgca gagacntatt 300
acntatagtg ctcanaggct cttcnggtcc ctaanccccg gnnaaccgcc tcngggtctg 360
ggtgaggacg ccttttacia ntcncggga tcacancana gcaactttcc aatanagaag 420
gtgtgaaatn caggg 435

<210> 3774
<211> 489
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G8

<400> 3774
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tctcaaaccg tcacannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnggt gtattcttac ctttgacaaa annnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnggcgcg 240
actattccct tgctcaagcc gttaagtttg ttgctaagaa cgagactgtg atcgtctgtg 300
ctgttagcta ccctttcttg ccttttctta acaactggtt gattagcatt tctagacaag 360
aaacatcaag aaaaagttct tgtgatcgct gaagactatg ctactttgta caaagtcaac 420
gaaaagtggc ctgggcatgc tgttctcant cctccggggt tggattctca atccgcaaaa 480
aaatttggg 489

<210> 3775
<211> 515
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G9
<400> 3775

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 tcctacgttt ctaagctctt ctctttgctt cgattcccaa aacgactatt tccaaaagg 180
 tttaaagaag ttatgaacac taatccagtg actaatgggt ttgttaaacc tgttcctact 240
 gaagaagaac aagcaaagat tgaggaagtg aggaagctat taggtccatt accggagaag 300
 ctttcgagtt tttgttccga tgatgcagtt ttaaggtatc taagggcaag gaattggcat 360
 gtcaagaaag ctactanaga tgcntaaaga aacttttgaa atggagagtt caatacaaac 420
 ctgaaggaga tttgttgggg aaggaagtan ctgggtgaaa ccagagacag ggaagatata 480
 tagnatcgag tttgtgtcna taaaaccttg ggccc 515

<210> 3776
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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<400> 3776
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 acactcacia caacagaaag gaggatcgtg gtggaacaaa atcatggcan acaagacgga 180
 tataatttca tcattctccg ataaagcttc tccaccacca ccatctgggt ttcagaaact 240
 acttatectc aangaagtaa ngaaccagtg cttctcttgg gatcanctgg tnanngnatc 300
 ttgttgcata ttagagtcc cctgangagc ttgcgnagca ttgaatccca aaggctataa 360
 gcccaaaagt tgtttccatt gggtccttac cattacggtg aaaaagcacc tccaaatgat 420
 tcaacagcac aangcctcgg cntctaacag cttttccna gacgaagg 468

<210> 3777
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-078-Q1-E1-H3

60 120 180 240 300 360 409

<400> 3779
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atcattcttt ggaggcaagt cacaatagca agcgttcaag aaaatcaagg agattgggcg 120
gttctgattt gaggattggg gtgagccttg gatcgtctca taggaatata naggctgagc 180
aggcggctgc tggttggcca gcttggcttt gttctgctgc ggctgaggct gtccatgggt 240
gggttcctct aaaggcagag gcgttccaga agttggagaa gattggacaa ggaacatata 300
gtagcgtggt tcgagcacgt gaagtagaaa cgggaaagat ggtggcattg aagaanggta 360
aagtttgana atcttc 376

<210> 3780
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E12

<400> 3780
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acagcattcc attcattctc atgaataatt ctacatcagt gaagaggctg gtttcatcta 120
aggcaatgaa atgtttctac ttcagcaaag acaaaactca ggatgatgaa gctaagacta 180
gaaagtttgg ttcagctacg atggctagag gaggatcagg gtctgagttt aattcagata 240
caagtactgc tacttccatt acttcttctt tgcacgtcct ctgagagaca cacagtanta 300
atctcaaagg tatttgcctt cgatgacctt aaaaccgcta ccangaactt cagccgcnc 360
ttgatgatcg gtgaangngg ctttgggtgg ngtcgttcgt tgcgtgaat 409

<210> 3781
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E7

<400> 3781
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tcaggggttc cgaaagggaa ttgatctcta ttttgaaaga catgatgagc aagcagtgac 120
 ttgtgaagac ttctttgctg ctatgcgtaga tgcaaataat gcagactttg ctaatttctt 180
 gcaatggtac tctcaanctg gnacgcccgt tgtcaaagtg gtatcctctt acaatgctga 240
 cgctcgtagt ttctctttta aattcagtcg ggagatacct ccaactccag gccagccanc 300
 aaagagaacc tacatttatt ccagtgngtt gttggccttt tcgactcaag tgggaaagac 360
 attactcttt ccnctgttca tcatgatggt acaatncag 399

<210> 3782
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-E9
 <400> 3782

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 gatctttgag ttttgaaacg atggcggaag aacataagca tgatgaatct gtgatcgctc 120
 ctgagccagc tgttgagggt gtggagagag aatcggtgat ggataagata tcggagaaga 180
 tccatcacgg tgggtgattct tcttcgtctt cttcatcttc tnnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnccctct tctccttcgt cttctatgaa atcgaaagt taccgcttgt 300
 tcggacgaga gcagcctggt cataagggtc tcggcggtgg aaagccggct gatatatcca 360
 tgtggaaaga acaagaagat gtcctgggtg ggtggtacnt gggggggg 407

<210> 3783
 <211> 388
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-F11
 <400> 3783

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 tctgggttct gtgccgtgga tgttgttgcc aaagccattc atcctgaaaa aacaacatga 120
 agctagacat caaggactgt catatgcaca gcttgacgag acagatgaga gtcttcaagt 180

agaaacaaat gggggaggac atggacacga agagtttgaa ttcagcgaaa tctttgtgca 240
 ccaactcatt cacaccattg agtttgtgct tggagctggt tccaacactg cttcttatct 300
 tcgtctctgg gctctcagtc tcgcccactc gggagttgtc gtcagtcttc tatgagaang 360
 tcctcttatg gcttgggggt ttcaacaa 388

<210> 3784
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-F2
 <400> 3784

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 aaatcgacca aaggaggat taattaccat gcccttcac ttcgcgaacg agatatgtga 180
 aaaattagcg gtggtgggggt ttcacgcaaa catgataagt tacttaacaa cacagcttca 240
 ccttccctta accaaagcag ccaacactct cacaaacttc gccgggacat cgagtcttac 300
 tcctctcctt ggtgccttta tcgccgactc tttcgccggc cgattttgga ncatcacttt 360
 tgcttccatc atctancana tcgggatgga cgttgcttac naatancngg canataatac 420
 caacgctaag gcnaccanc aatgtanagg agaaaaaggt ttgtgtacta n 471

<210> 3785
 <211> 465
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-F7
 <400> 3785

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 aagaagaagc gtcggtgttt tgcacggccg acgaagcatc tctctgcggc ggctgcgacc 120
 accaagtcca ccacgctaac aaactcgct ctaaactct cgtttctct ctcctttatc 180
 cttcttcttc caacacctcc tctctctct gcgacatctg tcaggataaa aaagctctgt 240

tggtctgtca acaagataga gctatatttat gcaaagattg cgattcatcg atccacgctg 300
cgaacgaaca cacaaagaaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnngtcc tgggatnadc antctctaata cctccnccctc tcaag 465

<210> 3786
<211> 466
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F8
<400> 3786

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gacgaacaag gatcggtatca acacttcgtc ttccttcaat tcattcaaga acaattacct 180
cchcggttttc tctattatga tggctgggga ttggcttcag ggtccttatg tgtattacct 240
ttacagcact tanggttttg gaaaaggaga tattggtcag ctattcattg ctgggttttg 300
ttcgtcaatg ttgtttggaa ctattgttgg atctctggct ganaancagg gtccaaatag 360
gnnatgtgtt anatanngta gtagtntaca nactaagttt catcancaaa gcactctcca 420
cantanaach gtttggatgg ttgggcccga tccntgggtg ggattt 466

<210> 3787
<211> 389
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F9
<400> 3787

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cgagacctcc gacgccggaa gttccggtga agaagacgaa gacgaaactc agaatacagg 120
aatgagacca gaatctgagg atcgaggatc aacgagcgat gatagcgatc gtgaagtgtg 180
gattgaggag agacgatttg gtaaatttgt aaatagtcag agttcttctt ctagcaaaga 240

ttcgctctt tctgtaacgt tattgggac cagatgttct tgattgtcct atttgttgcg 300
agccattgaa gattcctatc tttcangttt tgcttcctca ttgattacac aatccattga 360
aggcactccg attttagggg agaagttcc 389

<210> 3788
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G2

<400> 3788

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ccttacactg gcgagatcca ttgtaaaatc ccctatttaa gttccgatca aatcaccaaa 180
gtgggtggatc gtacgcgtgc tgttcaaaag agctactatc atgaatcgac tttggatagt 240
cgcatgaac tttgtnaaaa atttatggat gagatgaaag cccggactga ttctatcgcc 300
actgacattt caaaacagat gggaaagccc ctaagccaag ccaagggaga gattaagggg 360
ttgatcgagc gagcgacagc gatgattgac ctgncaccaa aggcactcgc agacgaagtg 420
ctgcccacac aaggctttta ccgcaagctc gcccgcgagc tgttggtgtg ggtgttggtg 480
tantggcccc ttngaaata gcctct 506

<210> 3789
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G3

<400> 3789

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gtgagcgagg gtccaagatg cagtctccgt agtaaaaagg tgtatagtga tctcgtgta 180
gattatttca aaatgttatt gttgaatgtt ccagcaaccg ttgttgctct cggactcttt 240

tctctgatgg tagccacacc gaatttagcg gtggcggcga tgataatgat gatgaggttg 360
catcggctaa cggggaacgaa ggcggagtta gcaatggagg tttattgcgt gaaagtgtgg 420
cgggaactag cggaggagaa gttttgttaa nggcggaaaa tcccgggtggg aatgggaanc 480
aggtgaagaa ncaccgagtt ccgactat 508

<210> 3794
<211> 447
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A8
<400> 3794

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gctaccgacc actcacatca caagtcacaa cctccgcctt gagatgagan nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnntta accgtccact cgccgcangt ttcagttcct cttcatcagg 300
gtgctanctc tggattcgnc ctacgacgtt nttgttggtg gtgccggaca ngctggatgc 360
gaggcggggt tagcctcggc tcgantagga ggctagtacn ctgcttctna nattaaacct 420
cgatngaata ggcttgggag nccgtgt 447

<210> 3795
<211> 498
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-B1
<400> 3795

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acggaaggat tcttcagaat atctgatccg atatcaagaa gccccaagtt cgcttgaatt 120
ccgtctgagc aatggctttg gtcttgacac cgtacaaggg aaacaaaagt gctgagaagg 180
cactcattgc agcagagtac gttggtgtgc aaatcgaagt gccctctgac tttcagatgg 240

gtgtcactaa caaaaccctt gcgttctca agatgaacc tattggaaag gtcccgtact 300
 tganactccc gaagggtcaa gtattttgaa aagcaaagc aattgccccg ttaangttaa 360
 cccgattgaa tggngacaac tcccttgaac ggattctccc tgntcganta tgcncaaatt 420
 ganccaatgg gatgatttnn cctcnantgg nagatntaag caaanancct nanggggggt 480
 ncggccaag aaaggggc 498

<210> 3796
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-B12

<400> 3796

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 ccattggtgt atttgaacaa tgttgctgaa ggatgtgttg gtcgtgttg gcgtaagctt 180
 gagatgatgg aaccgtgctc tancgtcaaa gacaggattg gttttangca tgatttctga 240
 tgcagaaaan aagggtctta tcaaaccaag nagagagtgt gctgattgag ccaacaagt 300
 ggaacactgg gagttgggtt agcattcacg gcagctgcca aagggtaca ngcttaacta 360
 ttacaantgc caagcgtcca aggagtactg tnnaggangg aatcattccg cttaacnctt 420

<210> 3797
 <211> 381
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-B9

<400> 3797

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 gacaaagctc gtaagactcg agcaccggg agcaagatca tgaaccgaa tgaccggag 180
 tataactctg actctcaatc acaagctcct cctcatcctc cttcttccag aaccaaact 240

gagcaagttg acacggttag aagatcacgt gagcatatga gaagccgaga agagagcgag 300
 ttgaaacagt ttggtgatgc tgggtgggtc atcaaatgaa ggctgctanc aaagagncag 360
 ggaagagctt ctcagancaa t 381

<210> 3798
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-C1
 <400> 3798

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 caacatcgaa agctcatgct ccaccgtgaa tccggataaa accgatattt ccgggtcggg 180
 tcaaaagttt cgtcgcgggt gttttacgga ggagaaagct aagcagttga ggaggaaaac 240
 cgcagaagct tccacgttcc atgacgtaat gtatcactcc gccattgctt ctgcacttgc 300
 gtctgatata accggccgag tgcaggattg aaacggattc ggggtcagat ctggagacga 360
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<210> 3799
 <211> 398
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-C10
 <400> 3799

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 tctaggcgtg aaaggctgtc tatgcttgct aaaagagctg ttcaggctgc acaagtattg 180
 cagcataaga aaccgacttc aagtgttgat gctgatataa cagggtggctc aacattaagc 240
 tctcaggctt tgccaaaaca agaagtgtca acagcaactt ctaaaagtta cacattcaaa 300

gcaggtgaca gagttaaatt tgtaggtcct tcggcttctg caatttcttc tcttcaaggc 360
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<210> 3800
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-C11
 <400> 3800

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 agaaggctcc tggagatacg agctgggcaa caaaagaact cctcgagttt gtgtcggttca 180
 tgaaaaatgg cgatacatct gttctatctc agtttgacgt gcagggtctt ctgcttgact 240
 atatcaagan aaaaaatctt agggatcctc ttcagaagtc tcaagttctt tgtgaccaga 300
 tgcttgtgaa gttgtttgga aaacagcgag tggggtcact ttgaaatgct tangcttcta 360
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<210> 3801
 <211> 468
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-C3
 <400> 3801

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 gataactaa tcatcatctt ccaaaagctc accgtgcgcg atctancgcg tgcgagctgc 180
 gtctgtaagg tttggaattc tgtagccaca gaagacgac ttgttgatc tgctttcacg 240
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 aacggaatct ggaaatttgc tatttctcat cggatttgct gtggtgatag tgtgactagc 360
 ctgcgcgtca aatacgccgt tcaggttatg ggacataaaa gcggctaaac aacatgatga 420

gcgancattg gtatttactc aaggagacag acngcttatc ccaataag

468

<210> 3802

<211> 454

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-076-Q1-E1-C4

<400> 3802

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cctccagttc acccncctcc tttcgctggt gcacccatt gaacctcaaa tcgctgcgtt 120

ctcatcgccg tccaaagatt tctcatatct gttgcgacgg aagctctatt tccggatctg 180

gcctcggcga tcccgatctc gagtttctcc aagcctcngt cntcgttgca gngacaagta 240

tgcattacaa aatgcggcga catggtttcc ggcaagattc aatgtggcaa acttcnaggc 300

ntttgcctcc cttttctatt atagctaag aatccaaggt tgggtgttct cctatnggga 360

cttggaattc tccgtcaatt caagcanncc cacnaanttt tctcangatc cctgggtgatg 420

gtgactaatt gntccctgt tattngttgg ggga 454

<210> 3803

<211> 471

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-076-Q1-E1-C6

<400> 3803

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tgccgcagtc agaagcatta ctttgcaaga acaagtgtgt aaacaaagat gaggagctcc 120

caaaacggcg gcgcaatggg tggacgagct gccggaaccg gcggaggagg accgtcggct 180

ccagttgaca aagaagttga ctacgtcag tacttctgta cttactcctt cctataccac 240

cagaaggata tgctctccga ccgtgtccgt atggatgctt acttcaacgc cgtcttccag 300

aacaaacatc actttgaggg caagactgtt ttagacgtgg gcaccgggga gtggaattct 360

tggaanttgg gtcangctca aagctggtgc caaggaaggt ttaagccgtt gaagctacta 420

aganggntgn tcatgctcgt gncntgtca aagccaagaa accttgacca t 471

<210> 3804
 <211> 462
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-C8
 <400> 3804

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 cttgttttct gaatccaaag aagacgataa cgatgaatgg agctatagga ggtgaccttt 120
 tgctcaatth tcttgacatg tgggtcctag agcgccaaag ggctcacctc aagtacctca 180
 atcccanctt tgattctcct ctgcgccggt tctttgccga ttcttcaatg attaccggcg 240
 gcgagatgga cagctatctt tgcactgccg gtttgaatct tccgatgatg tacggtgaga 300
 cgacggtgga aggtgattca agactctcan tttcnccgga aacgacgctt gggactggaa 360
 atttcaagaa acggaagttt gatacagaga ctaaggattg taatgagaag aanaagaaga 420
 tgannatgaa cagagatgac ctagtagaag aaggagaaga ag 462

<210> 3805
 <211> 459
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-076-Q1-E1-D1
 <400> 3805

acgcgtccgc tctttttaa at caaaacaaaa tatctctttc ctgttagaga caatggacgg 60
 attgatcaga ggtttggtcg acgtggctat cggaggaaac caacgccgcg gcggagacga 120
 tgggtggtgat gatgaaggca actcgaggga cgagagatcc agatctactt gggctaattgt 180
 ggtttccggt gaggaagagg atcagaatcg cgcgggagga tcgtcgcacg gccgtcgcca 240
 naattcagag gagaatcaat gggagaagaa gggcgaaagg cttcccacaa ggcattcaca 300
 atcacatgag gaggaccagg aagagaatac atatgctggct aaaagtgagc gagaaacaan 360
 acttctcgga gaagccagca anaggaaaat gatgggtggg aaactgtggg caaaaagaaa 420

cctgcaaggc aatcacataa ggtccagaan ggagcaatg

459

<210> 3806
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D12

<400> 3806

tctctctgcg cgacttcgaa gatcaacatc catggcgctca caggtaaggg tcantaaaag 60
ttggcaatct ctcttcagga gcaactgacc atgatattaa agagtttttc nctttcncng 120
gtgaanttga aancatcgat atccaaagta acgagcatag tgcttatgtc acatttaaag 180
aaactcaagg agcaganact gctgtgctct tatctggagc gattattgcc gntcaatcag 240
tcatcattga gttggctccc aactacagtc caccagcagc ccctcatgct gaaacacaga 300
gcagcgggtgc agaatctggt gtccagangg cagaagatgt tgtgagcagc atgttaagca 360
nagggtttca ttcttgggna a 381

<210> 3807
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A6

<400> 3807

gtaccgggtcc ggaattcccg ggtcgacca cgcgtccgtg gagcttaaag tagccaccgc 60
cgagaaacaa gtgcttgacg agttggtgaa gctattgcag agtcgagatt tgcgtggcga 120
aatggaaac tggaaggaat ttttacatgt ttacgacaaa aatgctgatt caccaagtga 180
tccttcgagg cgttctcatg aagatttgggt tcagtttctg acaactttta agaagaaaga 240
agatttgcaa cttctgaaat gtcacgcan tcactntctg attganaatt tgaaccaaga 300
ntccaagat gaagacactc ctgagcagat gctaagttag attgacagtt gagcatccga 360
nttacncgtt agactattct ttcaaggcca tactcagagg actgggtttg tatccccgatg 420
ttggaatgan natganaaag ggtgaatgng aatcaactaa catggganct gttgantgtg 480

acaaggggttc cgttgttgaa g

501

<210> 3808
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D9

<400> 3808

cgatgccatt ttccgcatca atctcatcgc cttcttcttc tgctcgctt cttecatcgc 60
ctctctcttt cttcatcttc actcccaaaa ccctaatttt caccagaacc aggatctctg 120
gtttccctta tcttgcttcc cggcgatccc gcgatttcat caacgggagg gatgatttcg 180
ctgacgatac gaggagctgg aaccggaaga tcaaaccgga gtatgggttc nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntg gatctgttac 300
ttagatttgt anaaaatggt ttcagaaaga tttcnaagag agcaaggaaa gctgtccgat 360
taattttgcc cggttcgatn tcg 383

<210> 3809
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-C6

<400> 3809

ctaattgagat tgcaacacaa aacaacaatc aaagtttttg aacagaacgt cagataaaga 60
taccagcata catggtgagt aggaactcta atgatgggta tggttgagaa aaatacggtc 120
agaaacaagt gaagaagagc gaaaacccta ggagttactt caagtgtacg tatcctgatt 180
gtgtttccaa gaagattggt gagacggctt ctgatggaca natcactgag atcatttata 240
aaggtgggtca taatcatcct aagcctgagt tcaccaagag accatctcaa tcttcattac 300
catcatcggt taatggggag gcgcttggtt aatcctgctt ctgttggtan tgaaccctca 360
atgatcaagt cagagaactc tn 382

<210> 3810
 <211> 421
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-C8

 <400> 3810

 catttgaagc gcggtctttt gaagcatcta aagcatccat tgatatgaag gstatccacct 60
 ccgcaatggc ttcaagcatc agccccgcta ttggtaaaat tgaacacatg gacgcaggct 120
 ctcttgcaag gccaaaccca attcctaata gaattgaggc aatgtcaaga actatggaaa 180
 agccaagaaa cttggactct gttgataagt ctaaaccctt agagctcaca gaaattgttg 240
 atccgactca gtgccgacaa gtgacaatgc cagatagcaa ggactctgtt agcaagggtg 300
 ctcggttctt ttacacaaat tctggcggtt gtgttttggc tcctggatna aatggtgttc 360
 aaagactatg gaagtggatn cgcaatgagc aaaatccanc tgggaaagna actgcctagt 420
 g 421

<210> 3811
 <211> 432
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-D3

 <400> 3811

 aaaaanaana gatccaaatt acanccatgc cttcggagtt aacaccagga agaacgatcg 60
 gaactaaana actcaatcgc cgagttccac acataccaac tcgatccagg aagctgttca 120
 tctctccacg cgcaacgaat ccacgcgcct ccggaactcg tctggatcaat cgtacgacga 180
 ttcgacaaac cacaacata caaacacttc atcaaactct gctccgtcga aaaaaacttc 240
 gagatgcgcg tcggatgcac gcgcgacgtg atcgatcatca gtggattacc ggccaacaca 300
 tcaacggaaa gactcgatat actcgacgaa cgaacgggag aagttaccgg gattcaagta 360
 atcatcggag gcgancatan ggtggacnna attannaaat ccgttacgaa cggatgcactn 420
 gggtcgagaa aa 432

<210> 3812
 <211> 423
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-D6

 <400> 3812

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actttcaacg atgccatggg tcttcgctca tgcaggttac gacgtaggca agaaggcgcc 60
aggacgttgt tctcgctacc ttaaagggtt tgaagaccga gatggacgat caggttatga 120
ggcttatcta gttagtcaca acctcctcaa cgctcatgca gaagctgttg aagttttccg 180
ccaaaagggt aaaggtggga aaattggaat cgcacatagt ccggcttggt tcgaaccaca 240
tgatcttaaa gattcaaagt acgttccaac tggtanccgt gtacttgact ttatgttggg 300
atggcatcta naccctaact cttttggcga ttatccacan natcatgaaa gaccttcttg 360
gncacagatt gcccaaattc acttcttcac naagcaanac aantgaaacg ttcgaccga 420
ntt 423
  
```

<210> 3813
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-F5

 <400> 3813

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atcctcttct tccatctcca ctgcttecta attccccgga attcttcaca acccataaag 60
ggaagagaga gttattcact ggtatgagtt cgtcgtttca ttgagattat acacaaaaca 120
agattataac ttttttgctg ggttttggag actatggctg gtggtaacga agtcaacctt 180
aacgaatgca agagaattgt cccactcaac acatgggtcc tcatttccaa tttcaagctt 240
gcttacaaag tcctccgtcg ccctgacggg tttttcaacc gcgacctcgc cgagttcctt 300
gaccgtaaag ttcöcgcaa ctctttcccc ctgacggcg ttttctcctt cgaccacgtc 360
gactcaacaa ctaancttct caccangaat ctaacaaacc tgcgtctctc cttcatcang 420
  
```

<210> 3814
 <211> 417

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-F7

 <400> 3814

 atggggaatt acaagttcag aatttcagag atgctcccaa atgcatgggt ccacaagctc 60
 aaagacgtga ctaaactctc taaacccaaa aacaaagctt cttcttcttc ctcaaact 120
 tgtagcaaga agaaaccttc ctcagattct cttcctcaac actcttattt ctccaacagc 180
 ttantagcna acaatcctcc tcaccataac tcaccangaa antctcttca cacaaaaanag 240
 atgagtanna ganagacact ttacaagcca tcccttaaan ctttgactcc tccntcgtct 300
 tcttgtatcn gcaagggttc aanaangagc aagatcaacc gatnanngat tcgtcttaan 360
 agcttgttcc cgggcnattht gaaacctccc cctgagtcgt ttgtgtagaa gtttcna 417

<210> 3815
 <211> 428
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-F8

 <400> 3815

 gcattgcaaa agttccctct cctgggggtt ctttttctca taaccattgt cgtctcttcg 60
 acaatagccg tcgatgatcc tgtgtgceca acgacgtcca aactaagccg agcaagtttc 120
 cctaattgggt ttgtgttttg cacagctact gctgcgtttc aggttgaagg tgcaattaat 180
 gaaacttgtc gtggacctgc tctatgggat atcttctgta agagaaatcc agagagatgt 240
 agtggccaca acgccgatgt ggccgttgat ttcttccatc cgttataagg aagatattca 300
 actaatgaag aatcnaaaca cagacgcatt cagactctca atcgcatggt caagaatatt 360
 tctcatggn gagaaaagga gaanggant nagtcaagct ggnngtgaaa ttctaccang 420
 acctgaat 428

<210> 3816
 <211> 445
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-G8

<400> 3816

aagtttctga gaaacagggtc acagggtctgt cttacatagt tacattgatg ggttgctcct 60
ggttatcgtg tcacaggaga gaagctacag aagttgatgg agaaatcgca gcgatagaca 120
atgtaaagat atacaaatat agagagatac gtcaggccac tgatgatttc agtgctgaaa 180
ataaaattgg agaaggagggg tttggttctg tgtacaaggg ctgtcttaaa gatggaaaac 240
tcgcggctat caaagtcctc tcggctgagt caagacaagg tgtaaaagaa ttcttgactg 300
agatcaatgt gatatcagaa atacagcatg agaatttggg ttaagttgta tggatgctgc 360
gtggagggga atcataggat tcttgttaca atttccttga gaacaataag tccntgataa 420
gacgccttcc tagctggggg ggcta 445

<210> 3817

<211> 489

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-075-Q1-E1-H2

<400> 3817

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cggcaactgt ggctcggtcg actttagatc ggtctcttct tgcaatgact acaataaaca 120
aaaaggtttc gacacgangg agcttgaaga gctctaattc tgttggtccc ttgacggatt 180
cgcactctgc tgttgtttct tctcagccaa gaaaccgtgg aggtagagta atgtcttggt 240
tattccctaa gttaaagaag anacannaga gtaattcgat ctttanttca cctaagtata 300
actgagaagt cagaggaagt ttctgaggtg ttgaangatt ctggttctgg tgttgagaag 360
ttgaagagga gaattgatgn aagcaaaaca gaagtaggga tgctgcgtta acacaaagtc 420
tcaaanatga aatcctcatt gggagagtta aagtgcnaa gcttcagtac cttgggnaaa 480
gttactgtg 489

<210> 3818

<211> 420

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-H5

 <400> 3818

 ggacacagct tttacttcta taactgagcg aagcaggtga aaaaatggcg aatcggaagt 60
 tagagaagat ggcatcgatt gatgttcac ttcgtcaact ggctcctggc aaagttagtg 120
 aagacgacaa gcttggtgag tatgatgctt tgcttcnaga tcggtttctc gatatacctcc 180
 aggatttgca cgggtgaagat ctccgtgaaa ctgttcaaga gcttnatgag cattctgcag 240
 aatacgaagg gaagcatgaa cctaagaagc tagangagct agggagtgtg ctaacgagtt 300
 tagatccagg agattccatt gttancgcta aagctttctc tcanatgcgc taaccttagc 360
 caatttggtt gancgaantg canntttgct tatccnccgt agcgatcaag aagctgaagn 420

<210> 3819
 <211> 409
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-075-Q1-E1-H7

 <400> 3819

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 aaggcctcct cacttaaaca atatttacct agcaactcag aggccggaac agcttttgag 120
 aagaactcag ttaatggagc gctgggctag atgggagatc agcaattttg aatacttaat 180
 gcagcttaac acgttggctg gccgtactta caatgacatt actcantatc ctgttttccc 240
 gtggattatt tctgacaaca gttcagaaag tctggacctt tcaagatcca tctancttca 300
 ggagatcttt ccaagccana ntggtgcatt gaanccanga gcggctcann gnantttcaa 360
 ggagccggtt ttccannctt ccgaagatcc agttattccc aaaanttcc 409

<210> 3820
 <211> 427
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations

<223> Clone ID: LIB22-075-Q1-E1-H8

<400> 3820

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ctgttaaaaa agtttgaatt atttgatcat aaaatggtat gttcataact ttgattatat 60
tttctaattgt atttttgcta aaagagttta aagttaatca cttggagatg aaagtttagta 120
acttttagtgg atcaatctct tttttcttct ttgcagggga tattacagat gtagtagctc 180
aaaaggatgt ccggcgagga agcaggtgga gagaagccgt gtggaccctt ctaagcttat 240
gattacttac gcttgcgacc acaatcacc tttcccttcc tcttccgcta acaccaaatac 300
ccaccaccgc tcttccgtcc gtcctcaaaa ncgcaagaga aagaggaaga atacnaagag 360
gaggaanaag aactaaccgt caccgccgca gaggaaccac cggcngggac ttgattcaan 420
gccacgt 427
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<210> 3821

<211> 451

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-076-Q1-E1-A1

<400> 3821

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnggg aattttgatc ctttggcccc 120
cattgctcgc ttgaattacg aatcagatat cgccgatcgt cgtagatctg cgttgatact 180
gtccggctga gtaaacaggg tgaacaaaaa caaaaaacag agaggggggtt taaaaatcct 240
gaagaaaatc gcatgaattt gtttggaagc ctgatttttt catcttcgat ttcgagccac 300
ttcacgactt gtcttctcat ctttantccn tcatttctct cccagntnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tttggatcaa 420
atgganaaag gaaatcattg gnggtccaag g 451
```

<210> 3822

<211> 424

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-075-Q1-E1-C4

<400> 3822

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ttctccatct ctcaaacctg ccaaaaacca ttcttttaaa gcattgccgg cgcaatctcg 120
agattccttc tctttccac atacctcaa accaccaat ctaccgttga ctctctctc 180
ggctcgttct gtggcacgcg acatttctca tgcggattcg aagaaagagc ttcttaagga 240
tccggatgcg ttgtggaagc gatacctcga ttggttttat cagcānaaag agcttggggt 300
gtatctggga tnttactcgg gtcggattta ccgatgagtt tgtggctnan atggagccaa 360
ggtttcaagc tgcgtttaag gctatggang atcntgaaaa agggctctata gccaaacct 420
gatg 424

<210> 3823

<211> 499

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-076-Q1-E1-A5

<400> 3823

gctttgnccg gccgtaccgg tacggaattc ccgggtcgac ccacgcgtcc gcccacgcgt 60
ccgtcttcc attcaaactc cacattccct cttcacaaca acagcttcgt attcgctcat 120
cttcttcgct ttctgatctt ggaaatcgca ggcattgttc gtctactcga ggatttcaat 180
tttggtcatn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnaccgg cggttcgtat ttccgacggg aatctaata 300
tcaaaaaccg gacgattcta accggtgtac cagataatgt catcacgacg tcagcatcgg 360
aagctggacc ggtagaagga gtcttcgctc gagctgtatt taacaaggaa gagagtanan 420
acatcgtagc gatcggtagc cttcgcaatt cncggtttan gtcntgtntc cgggtttaag 480
ctctgggtgg atggccnag 499

<210> 3824

<211> 385

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-G10

<400> 3824

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ctttagggtt tataagaccc aaacaaanaa cattcatcag tctcaattca aaatcctcca 60
tcaatggaga aatacgagaa gctcgaaaag gtcggtgaag gaacctangg aaaagtctac 120
aaagcaatgg agaaaaccac cggaaaactc gtcgctctga agaaaactan gtcgaaatg 180
gacgaanaag gtataccacc aacggctctc cgtgagatct ctcttctcca aatgctttct 240
caatcaatct acatcgttca gtctcctctg cgtcgaanat gttattcaat cgagnagatt 300
cgactgtttc ncantctccc aaatccaatc tcganctcgt ttttgagtan ctcgacacng 360
atntcaagaa atttatagat tncca 385
```

<210> 3825
 <211> 443
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-G2

<400> 3825

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cgcccgnaag cagttacatg atcaagtgat tgttgtgtct tggtangaaa gccttttggtg 60
tcgggtgctg cgcttggtat ggaagggcag cttacggttt ataatcataa cggaggccccg 120
tgttaccggt gtctttttcc cactcctcca cctacctcag cgtgccaaag atgttctgat 180
agtggagttc ttggagtagt gccaggtggt attgggtgtc tacaancgct agagacaatt 240
aaactcgcaa gcctgggtggg agaaccactc tctgaacgga tgcttctttt tgatgcttta 300
tcagcaagga tgcgcatgtg caagatcaga ggcaggtcat cacagtgan cgtgtgtgga 360
nacaattcat ctttcaataa gcanacnttt aaagattttg actaagaaga cttcactcaa 420
tttccgttat ttgcggggcca ttg 443
```

<210> 3826
 <211> 449
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-G4

<400> 3826

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 tgaaaaggca gagacnnnnn nnnnnrinnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnaggt tacaatgatg tttaatgaga tgggaatgtg tggaaacatg gatttcttct 180
 cttctggatc acttgggtgaa gttgatttct gtctgtttcc acaagctgag cctgattcca 240
 ttgttgaaga tgactatact gatgatgaga ttgatgttga tgaattggag aggaggatgt 300
 gggagagaca aaatgcggt taaacgtctc aaggagcagg ataaaggat nnaacgtgtt 360
 gatgctgnta aacaggangc agtctcaaga gcanagctac gagggaacgn naatgtccan 420
 gagctcaagg aatnggatct tgaagttag 449

<210> 3827

<211> 425

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-H1

<400> 3827

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 caccaccaac ttctgattcc agatctcaac gatgcaaagc tccgccgtan tctccctcnc 120
 tccgtcgctt cctctcctaa aaccacgtcg gctctctctc cgccaccatc ccataaccac 180
 cgccgcttct tcaagcgatc taaacgtttc tccaaatgtt gtctctattc cttctttatc 240
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 ttctccgatn tctcantcct tangannna atcgtttnan gaancgccgn tantgcagtt 360
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<210> 3828

<211> 412

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-H10

<400> 3828

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attcctctcg ctggaggaggaa gaactatnag cctcaaagat gttgggagga tatttttgat 180
gctnttagca atgcanaaca cttgacnac attactgggtt ggtctgttta cgccnagatt 240
gcttttagtga gggactcgag gaggcctaag cctggagggtg atgtgacat tggtgagcta 300
ctcangaana acgctactgg aangtgtcan ggttcttntn cntgtttggg atgacagnac 360
ttctgttgag gtgctgaana aaggatnngg ctcattgggt actcatgnat ga 412

<210> 3829

<211> 435

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-H3

<400> 3829

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cgagtgcaaa taaggctggc agacctggga agaaaagcaa agtttttatg gaagctgctg 180
ctaattggatt tggtgagaac cctctgagat ctgtttcagt atcaaagaca gcgaatacag 240
atgccaaaat ggatcaggat tacaaacttc atatcaaag ttcaactaga cgttggtctg 300
ctgentcagt attggatata cggaagccct taattcaaaa ggccagaaca ngatatcaag 360
canagattgg ngatgatgag attggcttta gaggcaggca gcggctgcag aggatgcagc 420
accccntgg atgaa 435

<210> 3830

<211> 493

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-H4

<400> 3830

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cttttcatgg agattaaccg tgggtggccat cccaacactt gttcttcttc taatcccagg 120
gttgatctat ggcaaatacc ttgttcactt atcaaagaaa tcttttaaag aatacaccaa 180
agcaaactcc atcgtggaac aggctctaag ctccatcaag acaattcttt cattcacagc 240
cgaaactcaa ataatcaaga aatactcgga agtcttgga agacacaaaa agcttggggt 300
aaagcaaggt cttgccaaag gtttagccgt gggaagctca anggatttca ttcaccattt 360
gggcttttct tgcttggtac ggaagcagat tggatgatga caaacaagaa accgggtgga 420
cgcatthtat gagctgggat cnccttcgtc ntgggtggaa tctctctaag gacggnactg 480
actgaaataa gga 493
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<210> 3831

<211> 385

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-H9

<400> 3831

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cacgctaana aactcgcttc taaanatctc cgtttcnctc tcttttatcc ttcttcttcn 180
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caaggataga gctatthtat gcaaagattg cgattcatcg atncacgctg cgaacganca 300
caciaaagaaa cagatnngt ttcttcntan aggggttaag ctctcnngca acatcgtctg 360
tttaciaaacc tacttcggaa atcnt 385
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<210> 3832

<211> 393

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-073-Q1-E1-A2

<400> 3832

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ccgagcttag ttatatccgt ctatgtact gcggttctca tcgcttgctg gtggcttctt 120

gaaactcttc atacacgttg tagaattgca caagggagac ttaatccaac agagctaaac 180

gatgatgaaa gtagaggagg aggacttgat gaacagaaaa taattaataa gccaaagtctc 240

ttgaggaatc gtccattgat ggctatcatc attgtttatt gtgttttttc cctccaagag 300

atagcataca atgagatatt ctcaactcgg gctgttaatg accgaaacta tggnnngattg 360

agctttctcan cccaagaaat tngggggaaa ttt 393

<210> 3833

<211> 427

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-073-Q1-E1-B5

<400> 3833

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aaaaggaggg aaaggaggca accaatggga cgatggatcc gatcatgacg ccgtgaccaa 120

gattcaggtt gcagtaggcg gaatgggaat tcaatacatt cagttcgatt acgtcaagaa 180

cggacaaacc gaacaaactc ctcttcgttg tatcaaaggc agtaccattc caactgatcc 240

gtttgtgatt aaccatcctg aggagcatct agtttctatt gaaatttggg ataaacctga 300

tggctcttatt caagggctta ggttcataac caacaaaaag acttctcggt tcaatggnta 360

cnattgtggg acnaacannn nnttccccaa nttttnnngc acncgnaant tcatgggctt 420

tccaggg 427

<210> 3834

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-073-Q1-E1-C5

<400> 3834

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ttgggatcag aggcaattta cgttgagtc aacttccgca aacctgtgga accctactaa 180
atggagcttt tagaagcaaa gtggtcttct ttgtgacgag gagaanatga cctgagtttg 240
atcatttgct ttaattaaat aaaacgttct gtttttgttt cttctttgtt tggtttctta 300
nngtcttttg ttgaaccctt tttgggaaaa gttactcatt tttgtaaagg gaaacatgan 360
aatgcnengg cnttggtcga gggnnengtg cccccctaag gtcaccccaa gtt 413

<210> 3835
<211> 383
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-C8
<400> 3835

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atccttgatt ctgagatcaa ccaatcgaaa gaaacaaaaa tgggcttcaa cgttggttg 180
ttcttgagtt gtctgcttct acttctctct gttacttttg gtagcaacat ggaacgaacc 240
accttggtta tagacggctc acgtcgaatc gctgagaccg atgagaactt tatctgcgca 300
acgcttgatt ggtggccacc tgaaaaatgc aactatgac aatgtccttg gggttacgca 360
tctctcaaca atttggaact tan 383

<210> 3836
<211> 507
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-D1
<400> 3836

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ccatctaaac aacactcctt caactgaagc cgcggcgaaa gaagggggaa agcgaaatct 120

attaagatta ggggtttata acgattatag ggagggacga aaatcaagna agacgagcta 180
 gaaggaagct gcgatttttc tggaagataa acaatggcac aagattcaga gaagagattc 240
 caccaaatca tggataaact ctttacccca tcgaaatctc agcttccttc ttctccacc 300
 agttcttctg tagagcaaca atcaagaggc aagaagcgtc aaaatccttc atctgcgta 360
 gcattgggtg agccaaaaga ttgtattaac taccattgat aggtcctcan ncntttgaag 420
 ggttcccgtt ggaaaanncc cntcngggc tttttnaagg ccttggggaan nanggnatt 480
 nnttctnngg agggtttgct actttca 507

<210> 3837
 <211> 366
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-073-Q1-E1-D7
 <400> 3837

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 aagattcatc ttttttcggt cctctgattg ggcaaaagac tagctcggtc gtgttttgaa 120
 caagagatac atgttttgaa aaattcctcg caaaagaaga gaaagaaaga ctcaaacttt 180
 tgtttgaatt tgataccatt ttttatatat ataccaaaag tccaagactg gtttcatttt 240
 tgggtttggt ctgaaacctc tcttcgtgtt gtttgttcat ggtatgtctt aattagggta 300
 aaaaaatact tgattgtttt ctctcaatca tcangcataa gagtacgcaa taaaccggnt 360
 aaatcc 366

<210> 3838
 <211> 480
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-073-Q1-E1-E3
 <400> 3838

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 tgtantttgc ttcttttagg agaaagaaag cacaaggggc aaaatcgga agattatcat 120

ggccgacggt agtactagtt ctteggagtc cactaccgcc tgcgctggaa gcggcacaag 180
aagagagatt atgctgttcg gagtcagggt tgtgcttgac ccgatgagaa agtgcgtag 240
tttgaacaat ctgtctgact atgaacagac ggccggagact ccaaagatcg acggcgaaga 300
tagagatgaa caagatatga aaaaaacccc ggccgggttac gcctcggcgg atgaagctct 360
tcccatgtct tcttctaacg gnaaaatcga naggaaacca ngagtttcat gggagngaana 420
nnagaacaca aaacngntnn ctncctggg gnnncaaaaa ttccgtnaag gggaaattgg 480

<210> 3839
<211> 430
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F8
<400> 3839

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ttgaaattgg ctttgaagga aaggtgaaat taatggcgga atcgtcgtcg ccgtcgccta 180
ctgaagagat cgttcgggtg attaagcgtt taagcgctta cgttgctttc aaaaatgtcaa 240
gccttttctc cactacatcg attcgaaatc tggattcaag atcaattggt gcgaattgcgg 300
ggcttgcatg tgcngtgata tntacgtgga ngggcgataa gaacgcccgg agaagcaacg 360
tntnnagaag gcagnccaag cgtatgattc acantgctga aacgtctant gctgctgntg 420
cttgctctc 430

<210> 3840
<211> 394
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A12
<400> 3840

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atattctcca catttgccga ggccaatagg ggctttgggt ggggttgggg tggacactcc 120

gctctgctgt ttcactgaag tctctgcgcc atgtaatctg cgataccgac gttgcattta 300
 tgtgggaaga agttgagaag gctgttccag ggtaaagat cgaaagctgc tgagaaatgc 360
 ttcagcctaa actgggcttg nccaattana gtgtaaactc antgtttann agtctggtan 420
 agttaaattgg c 431

<210> 3843
 <211> 366
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-A9
 <400> 3843

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 tttatcagat tttctcaagg agttctacat ccctacgtac gtcctctcgg cggaacaga 180
 agaggaggag gaggaggaga gtcgtcctac acctgcganc cccgtccttg tcttcatcaa 240
 ctccaaaagc ggtgggtcag ttgggtgggc gaactcattc tcacctaccg atctcttctc 300
 aatcacaatc aggtctttga tcnegaccan gganactcca ggataaagtg ctccgcagga 360
 atctan 366

<210> 3844
 <211> 429
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-B3
 <400> 3844

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 tgagatccat actcgagatg tgtttttgct caaaaattag cttgttcctg caattccata 180
 ggttccacaa gatccaaatg ggaagttgtc cttgtccaat tccgattggg ggaagggtaa 240
 cgaggagctt tgagacttcc aaaccctgtt tcatacttgt gatccgggaa gcttgaagcg 300

ccagaagaaa atcanccgtg agttcattaa ctcaatctca gccgttggat ctaaacaccc 360
ttcagtcncc ggggttgggtg gaaaaccgta cnaggtttac 400

<210> 3847
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C5

<400> 3847

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tcgatcggtta catcgagcgc aaagctttcg acaatacaaa agaagggtgtt aaaggggtca 120
tcgatgctaa aatcaccgag atccctcgaa ttttccacgt ccctcaagat accttaccag 180
acaagaaaag ctctgtttca gacctagaga tccctaccat cgactttgca agcgtcaacg 240
tggacacacc ctcacgtgaa gccatcggtg agaaagtcan atatgcggtg gagaattggg 300
gattcttcca ggtgattaat catgnggttc ctttaaangt tcttgaagag attaaagatg 360
gggttcngta ggtttcacga ggaagaagat nctgaggtca aaganatcat actantcgct 420
tgatttcacc aa 432

<210> 3848
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C8

<400> 3848

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tcgatgattc ggagtttagac gctattacaa gagagattga cataatcaag cctgaagtta 180
ggaagctcct atcttccaaa ggtgatgatg agacatcaaa gaggaaagtg cttttgatcc 240
aatcgcttct tagccttggc ctcgcatttc attttgaana tgaagntcaa agatanatta 300
gaagatgctt ttcgaangat agatgatnta actggtgatg aanatgactt gtcganaanc 360

CC-0-4E3E6D

tgcatcatgt tccgcttttc aggaanatac gggcacagnt ttacaatcaa ggtgtantt 419

<210> 3849
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C9

<400> 3849

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aagcctggtg aactcgcaat catttccaag gaaccagtgc ctcttttga ncgtcctgaa 180
ctanccaagg tatatattga cctcgaagtc aatccgaccc ttgcaaatat ctatgtttgt 240
gctggaactg gagaagcgan gcagtaccct aactggtaca aagagaaagg gattgacna 300
attgtgggca cagagatagt caaagcagat cttgcttcan acacacttgt taantgatga 360
ctggcanaat ttacaaagta ccaancttt 389

<210> 3850
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F1

<400> 3850

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tctttgcttt tgacgaaaat tcgaagcttg gagccagatt atgctcctaa gattattggg 180
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tcgccttctt ctactccgac gtctccttct ccgttgaatc ctatctgtcg tctcctctt 360
aacggaagan gaagctctca ctccaatggg tttatggatt tccgtagaaa ctctccgctn 420
tctccttctt ctacctctc 439

<210> 3851
 <211> 381
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-F10

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 gaaagtcagt tcggataatg ataggggctt ccaacgcttc ttggacaatg tccagtataa 240
 gtctagtggg atcttacgct atgagcgtgt ctttggagaa gggtttgta gcacaggggg 300
 actcgagaca acaaaggaat tcgtggatat gctggatctg aaacctggcc aaaaagttct 360
 agacnttggg tgcggaatag g 381

<210> 3852
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-F4

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 cagagcagct tcttcggagg cagcaggtg ctgatcaag gcgttggcta cgccgtgatt 180
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 ggacttattg caagtgtcat tgtatcacag tggacatggg ctgcgaccat actgcaaagt 360
 tcaaacgtag catggcagta tggggttagt ggaccgtttt ggtacgccan gtggagccac 420
 catacaggtg ctgttggttg gtgtgattgc gantgagata aaaagaaaag gctcctaagt 480
 ctcacac 487

<210> 3853
 <211> 485
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-F6

<400> 3853
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 agcangagag ctgtggaatc gtattggagg tcgcggatga tagatgcggt tacgtctgat 360
 gaggacaaag ttgcgcctgt gtacaaattg ggaagagatc tgtgacctn ttcgncttcn 420
 cangtcagca tcgtcaagga attttctgaa ntcattttg aaacgtcttg ataanaaaaa 480
 gcccc 485

<210> 3854
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-071-Q1-E1-F7

<400> 3854
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 cctaaagagt ttgattcttt tgaagatggt cttaagatct atgaagaagg aatcgatcta 180
 ccaaaccaag ctttgattga tagtatcgtt aagaatatac cgcttgagat gttaaaggag 240
 atattcagaa cagatggcca gaaattcctt aagtttccag tgctcangt catcaaagag 300
 gacaaaactg catggagaac agatgaggaa tttgctanga gaaatgttgg ctggactaaa 360
 ccctgttggt attcaacttc ttaangagtt tctccaaag agtangcttg acagtgaatc 420

atacggtaac cagaacagta caatcactaa gaagccacat nggagnanaa tttgggatgg 480
actcact 487

<210> 3855
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H7

<400> 3855

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agaaatgant cggaaccctg actcgggttca agagaagggtt cttggataga tactgactcg 180
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gttcangagc aaagttccgg tggntacgta cgaagatttg aagccggaga ttcaacgtat 300
atccaacggg tgattgttct cggatcttgt cttctcacc catcaccgag tttctcacia 360
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<210> 3856
<211> 184
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F1

<400> 3856

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tttttgtgtt ttcttcagtc aaatatatgg agaaatttca tactaaaaaa aaaaaaaaaa 180
aagg 184

<210> 3857
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F3

<400> 3857

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tttgatagtg catatcaggg ttttgctagt ggtanccttg acacagatgc acaatctgtc 180
cgtacatttg ttgctgatgg cggatgaatgc ttgatagctc aaagttaggc caaaaatatg 240
ggactttatg gggancgtgt tggatgccctt ancattgtct gcaagtcaag cagatgtggc 300
tagtaagggtt gagaaccaag tgaagcgtgt tgtgcggccc atgtattcga gccccctat 360
tcatggagggc atcaattggt gccaacattc taaaaacca gttgntatg 409
```

<210> 3858
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F4

<400> 3858

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aatcctcggn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnat aatggcgctg 60
atccctccgc cggagcttga caacgactca ctggcgctcat cgccgagatc ggagtagcat 120
agtcagccac gcgtacgggt catgtgtact tttggaggaa ggatcttgcc acgtccgccg 180
gataatcagc tctgttacgt cggcggcgat aatcgcatgg tcgctgttca tcgtcacact 240
actttcgctt ctctccttag taaacttgct aaactctctg gtaaaagcaa cataagcgtg 300
aagtaccagc taccaaacga agatcttgac gcgttgatgt ccgtatcaac ggacgaagat 360
gtagagaaca tgatggacga atacgaacgc gtcgcacaag aatccaaaac caagcgggnt 420
c 421
```

<210> 3859
<211> 134
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F5

<400> 3859
 caaattcncg ggtcgaccca cgcgtccnac caagttgtgt tgctacttgg taataagagt 60
 aagcttttaa aagagtatgt tcaactgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nngg 134

<210> 3860
 <211> 418
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-070-Q1-E1-F6

<400> 3860
 ccacaaaaag gctgggtgcta tgaatgcact ggtgagagtt tcagcagttc ttaccaatgg 60
 acctttcatc ttgaatcttg attgtgatca ttacataaat aacagcaaag ccttaagaga 120
 agcaatgtgc ttctgatgg acccaaacct cggaagcaa gtttggtatg ttcagttccc 180
 acaaagattt gatggatcg ataagaacga tagatatgct aatcgtaata ccgtgttctt 240
 tgatattaac ttgagaggtt tagatgggat tcaaggacct gtatatgtcg gaactggatg 300
 tgttttcaac agaacagcat tatacgggta tgaacctcca ataaaagtaa aacacaagaa 360
 gccaaagtctt ttatctaagc tctgtgggtg atcaagaaag aagaattcca aagctaag 418

<210> 3861
 <211> 403
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-070-Q1-E1-F7

<400> 3861
 acgcgtccgc nttttttctc tgctccaggg ggaaattaaa aaagtggaac cttttcatct 60
 cctgnagcga tcaatttctt tttcatcata tcgctgactc tcgtcttcgt cgtctttgat 120
 cgtatcgagg aattgggttt agttcgattc gatcatcagc tatctcaatt tttctgggga 180
 ttgttctaaa gggttctagt gacttggtta aagtgggttg tantggataa tgccttctct 240
 catctcacag naatggnatg agangactag tgggntcttt tcttcatcag gaacgaanct 300

<210> 3864
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-070-Q1-E1-G2

<400> 3864

 gatgagtgct attcctgctc tatccaaacc atcggtnaag gatattattt ttgtgccacn 60
 tgtgataaaa ggntccacaa anaatgcgctc gagtgtccac ttgagantag ttatcctacc 120
 cacaccaaac attctcccca actcntctaa tctaaatata natttgacca ttgcatctac 180
 tgtagaaaaa gagcaaccta tatgatttaa ttttgtgctc tttgcgacag ttatatgcat 240
 gtcctttgtg ctcaagtcaa aaataccctt ttttatagac caagccaaaa aagacatgac 300
 catactctca ccccttttccc tagacaagct tccttaacct gcaatatttg tggtttgata 360
 aanaaaactcc atttcaccta cgtttgccct aaatgcgaat tcgtaaccca aaagtgattg 420
 naatta 426

<210> 3865
 <211> 408
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-070-Q1-E1-G7

<400> 3865

 aaactcaaat cttcctctca gtttctccca ctcttcttcc tcaaccttcc gatttatcgg 60
 attactctaa aatacccaaa atggaatctc atggaaaaac ccatcagaaa gagcacgata 120
 atgatctctc tccgaaaccc ataacgttgt caaagtattc gaaacgggtc gagttaaaga 180
 ctctgcttga tcggagcgac cgcggcgag gattggctgg gaaaagggtt gtgattggtg 240
 gttgggttaa gtctgctaga gcgggtaaga aaaattctcc tctcctcct ctgcctgtag 300
 ttgccgcccc ttgccgctcg agtgggtggg atnaagctca tacgacgggc aacattaagt 360
 gcacgggaga tatccaatcn aaaatgaata atttcaagag attttccn 408

<210> 3866

<211> 413
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-070-Q1-E1-G8
 <400> 3866
 gggctaaatc tctctctggt gttaccttcc catgggatgg tctaataaga ctctcataag 60
 agcaatctgg gcatgacaaa gtccatgaat ttctttcaga acatcattaa accttttcaaa 120
 cgcagctcca atcgaggtct tgaagatgat attgagcgaa ttgctgctat ggagcaaaaa 180
 gttttcccat ttcaagtttt agtttccgct accaaagatt ttcacccgac ccataaactc 240
 ggtgaagggtg gtttcgggtcc cgtcttcaan ggaagattac ctgacgggag agacatagca 300
 gtgaagaagc tatctcaggt ttcaangcaa ggcaaaaacg agtttgtgaa cgangctaag 360
 ttgttggtta aagttcagca tcgcaatggt gttaatcctt ggggttaatg tac 413

<210> 3867
 <211> 469
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-070-Q1-E1-H10
 <400> 3867
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 gactgttgct canacaattc aggaagtttt gtgggacaat cctcccatac cagagaacca 120
 agcaacatgc gctttatfff actctatfff ttcaactcag cctggcttag ctgggataaa 180
 cctcggnaaa tttctgatca aacgagtgat tacgttggtg aaaaaagaca tgccacatgt 240
 ttctacattt gcaacactta gcccattcc tggattcatg caatggntcc tctcgaagtt 300
 atcatctcaa gtcaagattt gctgaagatg agcgtggtac acagagcaat tcgccttcat 360
 ctacgttttag tgagaaagta ttactaccag aagaggaaca tgccctcatg actctatcag 420
 atgaatcttc atccggtagc aacggtatgg aagttctggt gaatttgct 469

<210> 3868
 <211> 465
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-070-Q1-E1-H2

<400> 3868

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cttngccggc cagtacaaaa caagcmttg nccgncgacg cntccnnatg gccatcttgg 60
ctcacttctt ctctccggcg catccaacgc caactccttc gcctccgtca ccggtttttag 120
cttcctcaat gggaaaaaca agtgcgttag atangctttg tggccaagcg tacggagcaa 180
agaagtacgg aatgttagga atacaaatgc aaaaagctat gtttgttctt acactaactt 240
ctantcctct ctccatcatt tgggctaaca cagagcanct tctcgtcttc tttggacaaa 300
acaaatccat tgctacactc gctggctcct acgcaaaatt catgatccca agcatcttcg 360
cctacgggtct tcttcaatgc tttaacaggt tcttgaggc ccaaaacaat gtgtttcctg 420
tggttttctg ctccggagta acaacttctc canatgtcct ccttt 465
```

<210> 3869

<211> 396

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-070-Q1-E1-H4

<400> 3869

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gttattgctt gttcttggac tacttgtttg ttcgattgcg ttcgcggtag tagccataat 60
caaagctaga tcattgaaaa aggcgagtga gtcacgggct tggagggttaa cagctttcca 120
gagactagac ttcacgtgtg acgatgtctt ggattctctc aaagaagaca acattatagg 180
caaaggagga gctgggtattg tctataaagg cgtaatgcct aatggtgatc tagtcgcggt 240
taaaagactc gctgcaatgt ctctgggatc ttcccatgat cagggcttca acgcagagat 300
tcaaacctta ggaaggataa gacacaagac acatagttag gcttctcgga ttttgetcaa 360
accacnaaga cgaatctact tgcnaagaa gtacat 396
```

<210> 3870

<211> 437

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E8

<400> 3870

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accacgcgt ccnggtgttt tgatccaagt ctatgaaggc gagagagcaa gaaccaagga   60
caacaacctg ttgggtaaat tcgagctttc tggatatccct ccagcaccaa gaggtgttcc  120
tcaaatcact gtctgttttg acattgatgc aaacgggtatc ctcaacgtct cggctgagga  180
caagacaacg gggcagaaga acaagatcac aatcaccanc gacaaggga gattgtcaaa  240
ggacgagatt gagaaaatgg ttcaagaggc agagaagtac aagtcggagg atgaggagca  300
caagaagaag gtggacgcca agaattgctc tgagaattac gcatacaaca tgaggaacac  360
aatccgtgat gagaagattg gcgagaagct tgctggagat gacaagaaga agattgaaga  420
ctcaattgaa gcaacca                                     437

```

<210> 3871
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H5

<400> 3871

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acgcgtccga aaaacctctt cttcttcttc tctctctcta tccattttca ctaattagcg   60
attaanaagg attctttttg tgtgtattaa ttatcgctta aatcttaaat aattctccta  120
atcgctctcg caggttggtg atggtgttta gttgtcaatt ctacatctcg aggaaatcca  180
gaaacagctc actgatctat cgaaacagtt tttttcttt ttacagagtc aatagaacaa  240
gaaccagata acagagatag tgacaaacca tccgtgacn nnnnnnnnnn nnnnnnnnnn  300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaagacat tgcttaaadc  360
ntcaaaactc cntttggctt taaatatgtc cttccaaat natcct                     406

```

<210> 3872
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H6

<400> 3872

```

gggaccaaac aanaattggc nggncgaccc acgcgccggc tggcaaaacc ctaatcgact   60
tcgatttanc tcttttattg gaaccatgta ngcttcttgg agttagtatt ggtgtgatct  120
gtaatcttgt ttttccgaac tggttgatta cgagtctctt cgctgtgttt cttgctgtgt  180
cnacgttgaa nacttttggg aatggacttt attattggng attggaatcg gagatggtga  240
agattanaga atcgaatana attgaagaag atgatgaaga agataagatt gagagtctaa  300
agttgcctcn cntggnggat tatcagagac caaagangtt tccatggatt angcttggag  360
ttttggtcat tanttggctt tcttacttcg cagtttatct tcttcgagga aacanntatg  420
gcaatggaat cataacgatc gaaccatgtn ggaacgcca ac                          462

```

<210> 3873

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-069-Q1-E1-B10

<400> 3873

```

actttgaccc gnccaggtac caagtcnnag aattcccggg ccgaccacg cgccncaca   60
tagagaagtc acattttcct tcttcttctt cttcatcat ccccaaacac acacaaacta  120
aaaaaaaggc aaaaccctag atccaagatc agacctaatc taatcgaaac tcatagctga  180
aaaatgaaga gagatcatca ccaattccaa ggtcgattgt ccaaccacgg gacttcttct  240
tcatcatcat caatctctaa agataagatg atgatggtga aaaaagaaga agacggtgga  300
ggtaacatgg acgacgagct tctcgctgtt ttaggttaca aagttaggtc atcgagatg  360
gcggagggtg ctttgaaact cgaacaatta gagacgatga tgagtaatgt tcaagaagat  420
ggtttatctc atctcgcgac ggatactgtt caattatctc                          460

```

<210> 3874

<211> 588

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-069-Q1-E1-B3

<400> 3874

attnacgggt cgaccacgc gtcccgnga cgcggtggcg ggacgcgtgg gcggacgcgt 60
gggttgcct ctggcgtttt ctgtcttgag ctnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nctttttttt ttttgtttat ttgttctttc tccaaaactc cttttttttc 180
tcaccattat ctcatgaacg tgagtggagg ctctctgagt agagagagcc tacccttgaa 240
aataacctag ggattttctc aattttcaag ctttaccat tcaaaagaat cgtccttttt 300
tcctatttct gactttgagc tatgatgatg gtccattcga tgagcagaga tatgatgaac 360
agagagtcgc cggataaagg gttagattcc ggcaagtatg tgaggtacac gccggagcaa 420
gtggagtcnc anaattaacg atgccnagca antcctaaga agacacaact catactgaat 480
gtccgantcc cccaacatc gagcctaagc agttaantt gggttcaaaa acgcaanatg 540
tcgtganaaa gcanaggaaa agaaaccngc tccgtcctca aacagtga 588

<210> 3875

<211> 588

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-069-Q1-E1-B6

<400> 3875

acggcgctcg atcttcttct ctaaactctc aacatgtctt gctcggccac cgatctcgct 60
gtcctgttgg gtcctaagc caggcgcgcg gccaaactaca tctgtggcca ggtaggcga 120
cgtcaacaac aaatttatcg acaccgcttt cgctatagac aacacttacc ttctcttctc 180
cgcctacctt gtcttctcta tgcagcttgg cttecgctatg ctctgtgccg gttccgtgag 240
agccaagaat actatgaaca tcatgcttac caacgtcctt gacgctgcag ccggtggtct 300
cttctattat ctgtttggct acgcctttgc ctttggatct ccgtccaatg gtttcatcgg 360
taaactactac tttggtctca aagacatccc caggcctct gctgactatc aattccacaa 420
tggccttgat cctgcggtgg atacaagtgg gtcgattgct gaacggacac anttcgtggc 480
ttaactaatc cnagtcctcc ttctaaacc ggggtttggg taaccgggt ccgtccnctc 540
aatgggttt cngggtcaaa ttttaatngg atggggccaa accccgtt 588

<210> 3876
 <211> 454
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-069-Q1-E1-D12
 <400> 3876

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 tccgttcac tccggntnta tctgccgcca aattagtcaa ccgaaacccc aggcttcctt 120
 ctcggntcac ccgcgcgtca cgcgcgtcca tgtagctacc tcctcggccg cgtcgccgag 180
 tatgcgacct cttcaccggc aagctctgct gcgccatcct ctgctcctgc taaggatgag 240
 gggaaaaaga cctatgatta cgggtggcaaa ggtgcatggg ggcgtgtttg tcaggtcac 300
 ggtgccattg tcgatgtgag attcgaggat cagggaagga ttgcctccga tcatgacac 360
 tccttgaggt tcaaggatta tcccangaag gctggtgctt gaagggtgtc tcatcatttg 420
 ggtcaaaatg tcgttaggac catngctat ggat 454

<210> 3877
 <211> 626
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-069-Q1-E1-D3
 <400> 3877

ggccanaat taaagggtcn acgcncgcgt ccggcttaaa gcattcggca acttcaaaaa 60
 agccacacct gaagaaagaa accttagatt tgggtgcagg gaacatggta tgggagctat 120
 ctgcaacggc attgcccttc acagccccgg ttttatccct tactgcgcaa ctttctttgt 180
 gtttactgac tatatgagag ctgcaatgag aatctcggct ttgtctgaag ctggtgttat 240
 atacgttatg acccatgact ccattgggtc tggagaagat ggaccaaccc accaaccat 300
 cgaacactta tccagtttcc gtgccatgcc caatattatg atgttccgtc cagctgatgg 360
 gaacgaaaca gccggtgcat acaaaatcgc tgtcacaaaa cgtaagacac cttctgtctt 420
 agccttatct atcgnagctg ctactcaga catctattga gacgtcaaaa aggtggatac 480

gcctcagaac tgcatagcac caaggcctga agaagatggg ggagtcattg ttcaagggtt 180
gccagatatg tcagacacgc agagcaagtc tgtactagcc ttccttacga ttacttcaca 240
acctgggtctc cagatgtcta tgtatcccat aactctcaag tttgaggagg ttgtgtacaa 300
ggttaagata gagcagacaa gtcagtgtat gggatcatgg aaaagcaaag agaagacgat 360
tttgaatggg gataacggga atgggtttgtc cccggagagt ttctagccat gttagggtcca 420
tcaggcagtt ggc 433

<210> 3880
<211> 582
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E4
<400> 3880

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caacatgatg tacaagaact caacagagtt ctctgtgaaa agcttgagga caagatgaag 120
ggaactgttg tggaggggaa aatacaaaaag ctatttgaag gtcaccacat gaattacatt 180
gagtgcatta atgtagatta caaatctaca cggaagaggt catttttatga cctccagctt 240
gatgttaaag gctgcaaaga tgtatatgct tcttttgaca agtatgttga agttgaacgc 300
cttgaaggag acaacaaata ccatgcagaa ggacatgatt tgcaggatgc aaaaaaagggt 360
gttctattca tagactttcc accaagttct tcaacttcag ctcaagaggt ttgaatacga 420
tttntgagga ccatgggant atgtcggtat agttcctccc caactggatn tcgacagana 480
anatggaaat attatccctt gatgcanaca gnaagtgtcc gcaatctcca aaacctccan 540
antgtcctgg gtcnaaattg ggaggaattc cattggangg gc 582

<210> 3881
<211> 608
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E8
<400> 3881

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-F1

<400> 3883

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ttgatccaca cttttgttaa agaaaaacat caagatgaga ttacattcgg cgacaaatca 120
agattaggga gaggggggtat gactgcaaaa gtcaaagctg caagtcaatg cagcttatgc 180
tgggattcct gtcatacataa ccagtgggta ttcagctgag aacatagata aagtcctcag 240
aggactacgt gttggaacct tgtttcatca agatgctcgt ttatgggctc cgatcacaag 300
attctaagtc tcgtgacatg gcagttgctg cgagggaag ttccagaaag cttcaggcct 360
tatcttcgga agacaggaaa aaaattctgc ttgatattgc cgatgccctt gaagcaaatg 420
ttactacaat caaaagctga gaatgagtta gatgtagctt cgccanagcg gttgaaatca 480
tggtgctccc taatttgaca cctggaaaga tttcaacctt gcaacntcan tttcgtaanc 540
caacctgata tggaagattc aaatcggnccg tttttttaa gaaaaccana nggtggcaaa 600
atgggnccctg tc 612

<210> 3884
<211> 606
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B1

<400> 3884

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atgaattgat cgataaagtt ctcaccttta tgccctctcc tactttttcc acttaatcat 120
cccacttcct tcttcagatg taagcaatgt tgtctagagt cctcctctga ttcagatttc 180
gttgctgaat cttttgtaa actctgttct ttgtatgtcg agaagccaaa ttcagggaat 240
ttagggtttt acaaaaaaat aaaaaagagt ttcttttttt ggatgatgga atcgaattac 300
tcagggtggtg tcaacggcta cgatgtgagt ttcttaccac cttcgattcc ggatcttgga 360
ttcgggtgttc cttcttctag tgattttgat cttcggatgg atcaatacta tcaccaacct 420
tcgagtgggt caataagtta cactttctca caantgatga nattgatccg aaaacacctt 480

tttgaaaaan ttaaacaagc tcccttaagg gaangaaaat cccccctgaa naagcaattc 540
 aaacctccaa gnaatncctt tgggnccctt cgaanaaaan ccnangggaa aatgtttcaa 600
 ccaagt 606

<210> 3885
 <211> 389
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-068-Q1-E1-F2
 <400> 3885

acgcgtccgc ttgctccgac acgacaacaa atccagattt tgagcttang gaaacttgag 60
 aaggagaaaa aaatgtcgaa catanacata naagggatct tgaaggagct acctaataatgat 120
 gggaggatcc caangacgaa gatagtttgc acattacgac cagcttctcn cactgtttcc 180
 atgatcgaaa agctttttgaa agccggtant aatgtggntc ncttcaactt ctcacatngn 240
 agccatgaat accatcaaga gacactcgac aacctccgct ctgctatgca taataccggc 300
 attcncgctg ctgtcatgct tgatactnan gggcctgana ttcgtactgg tttcttgaaa 360
 gatgggaacc ctatgaactg aangaagtc 389

<210> 3886
 <211> 398
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-068-Q1-E1-F3
 <400> 3886

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 agtggntggt tccgagagcg gntggccttc taanggtggn aacgccgcga gtttcgataa 120
 cgcgngagct ttttacacga atcttgcgtc acgtgtgaga ganaacagag gaacaccgaa 180
 ganacctgga agaggagtgg caacgtatctt gtctgccang tttgatgaga atcaaaagag 240
 tcctgagatc nagaagaatt ttggcttgnt ttttcnaat acacaaccaa aatttccgat 300
 cacattctct gccgcnacag acggtacngg ggttgaatna tcattttana ttctnagatt 360

tatgtgaata aatgggagat tatcccagnc aagggttc

398

<210> 3887

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-F5

<400> 3887

tcttcttcat ccaaaagaat ccaatctttt cctcaaaaga tagtttctgg atcgaacgac 60
aatggagatt ttctactact tgggtgtttg gggttttgggt ctgcgtcgtcg cggcggttgga 120
gcttagcaag aacaacaagg atcgaatcaa cacttcttca gctttcaatt ctttcaagaa 180
caattatctc cttgtctatt cgtcatgat ggcgggtgat tggttgcagg gtccatatgt 240
gtactatctt tatagtactt atggatttgg taaaggggac attggacagc ttttcattgc 300
tggttttggg tctctatgt tgtttggtac catcgttggg tctctagccg acaaacaggg 360
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<210> 3888

<211> 452

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-068-Q1-E1-F6

<400> 3888

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ctgctcgttc ccgtggaggg gaaattggag tgattgcaa gatcgagagt atcgattcac 180
tgaccaatth ggaagaaatt attctagcat cagatggggc catggttgca agaggagatc 240
tgggagctca gatactctt gagcaagttc cagcagctca acagagaatc gtccaagtat 300
gcagagctct taacaaaccc gtcattgtcg cttcacagct attggagtcc atgattgagt 360
accaactcc aaccaagagc agaagttgcc gacgtgtctg aagcagtaag acaaagatca 420
agatgcattg atgctctctg gagaatcagc ta 452

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 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
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 ctctctttta atggatatat cgctctccg atctcattct tectegtttt tatctgccaa 120
 acnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnagctt tcggtttctt tgataattcc ctttgaattc 240
 gtttttcttc ttctttcaat ttccgcaa atcagccgc cgataagata atcatgggga 300
 ggaaatctca gcgtaagaac gcgacaatgt ttgatagtga tgatgataca agtagtgtaa 360
 gctcttcttc cancatgcca tctgagagat tgttgaatcc tggtaaggat 410
 <210> 3890
 <211> 122
 <212> DNA
 <213> Arabidopsis thaliana
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 gg 122
 <210> 3891
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana
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 gcaaagtcga tggaagaggg agaagaatcc gtatgccgat tatatgtgct gtcctgtgtt 360
 ttcagctaac gagagagctt ggtcataagt cagatggcca aacaattgaa tggttacttc 420
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<210> 3894
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-068-Q1-E1-H6
 <400> 3894

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 agacttacc aaagcactaa caccaaactc ccttcgtaa accagcccta ccggaccggt 180
 ttccatttcc aaccccccaa aaattggatg aacgatecta atgggcctat gatatacaaa 240
 ggaatatatc atcttttcta ccaatggaac ccgaaaggag ccgtgtgggg taacatcgtg 300
 tgggctcatt ccacgtcaac agacttaatc aattgggatc cacatcctcc agctatcttc 360
 ccattctcac ccttcgatat caacgggatg ctggtcgggt tcagctacta 410

<210> 3895
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3895

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 agtcttcttg gagaaggtgg ttttggttgt gtctttaaag gatggatcga agaaaacggt 180
 actgctcttg ttaaacttgg tactggtctt acggttgcat tcaaaacctt aaatcctgat 240
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664730"16366666

gatagggaaa cagcccagat cntacgctaa ggtccctaag caatcactta ctggaaaang 240
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cgtantantc cantgggtcta gctccatggc accgaaaatg tatcanggct cangtgattc 360
accgaagcga cgaagacctt gaaagctgct ttttcaagtg tcagtancgg aacgttctgt 420
caatcgggga aagtttttgg tgacaagacc tggngatata agantgtaag cgcatattac 480
ataatcctgt gaaaaaagat nccatgcantg gnaaggnttc cgcgttnatc aatcctacnc 540
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tacac 605

<210> 3898
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-E9

<400> 3898

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aatgatgatg gagactagag atccagctat taagcttttc ggtatgaaaa tcccttttcc 120
gtcgggtttt gaatcggcag ttacgggtgga ggatgacgaa gaagatgact ggagcggcgg 180
agatgacaaa tcaccagaga aggtaactcc agagttatca gataagaaca acaacaactg 240
taacgacaac agttttaaca attcgaaacc cgaaaccttg gacaaagagg aagcgacatc 300
aactgatcag atagagagta gtgacacgcc tgaggataat cagcagacga cacctgatgg 360
taaaacccta aagaaaccga ctaagattct accgtgtccg agatgcaaaa gcatggagac 420
caagttctgt tattacaaca actacaacat taa 453

<210> 3899
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-A3

<400> 3899

60 120 180 240 300 360 420 480 515

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ccctgagggga agtggtaaag tcaactggaa aggagttgct tattacaata gattgattga 120
ttacatgggt caaaaaggga ttacacctta tgctaacttg taccactacg atcttccatt 180
ggctttggaa aacaagtata aaggcttgct tggtagacaa gtagtgaaag attttgcgga 240
ttacgctgag ttttgttaca agacatttgg tgatagagtg aaaaattgga tgacgttcaa 300
cgagccgcgt gtggtaagct gctttagggt atgataatgg tattttcgca ccgggtagat 360
gctcaaaagc atttggaaat ttgcactgaa ggaaactccg cgacagngcc tcatantacc 420
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aantttgna annttttaaa tttcctttgg gaaan 515

<210> 3900
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-B5

<400> 3900

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nnnnnnnnn ggtgtggatt tgaggcaagt ggtggctgga atactacca ttaccatggt 180
tgtgatgctt ggacaaatgc ttcatagaga ttactttgat gctgttcagg anaaagttca 240
nggagatgca catgatattg aattccatgg atcaaaagta gctgttgaan atggacttgt 300
tagagccttt gaggtggga cttaaagggcc ttggatggaa gatagtcatg aactcaaacc 360
ttgttggtca atttctcaat ctgatgaagc ggtatcgta aaggggtacn ttacnattcg 420
ccttaacaaa tnggtccctg aactacaat 449

<210> 3901
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnng gatagtggaa gtttccatt tgtaggagct 240
ctgcattcaa aatcacgttc gtctcctctg ttatcagttt gccttgttct cgtgggagca 300
tgctttctca ttgggttatgc ttacagtggg ccaggtatgt tcaaaagtat cagagaagtc 360
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aagagtgcgt atgggagata gcatgcgcaa agt 453

<210> 3904
<211> 409
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-068-Q1-E1-C12
<400> 3904

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cagtgtcttt tgatacgta caccagccag gttatccgtg acatggccaa ccacggtcaa 180
tctggagaac gtccgttcta tgaatttttg gagagttgcc tgccgcataa ggcagaaatg 240
gtgaccttg aggctgccag ggcaattact gagcttgatg gtgtgacaag ccgaagaact 300
gactccagca atcactgttc ttcagctctt tttgagttcc cccagaccag tggttagatt 360
tgccgctgtc cggactctga acaaggttgc aatgactcat cctatggct 409

<210> 3905
<211> 412
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C3
<400> 3905

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atccggatcg ggttttatct ccgacgagct cgaaatcagt gacgcagacg gtgaacgggt 120
 cgcatacaatt cgtgattcaa ggatacagct tagcgaaagg gatgggtata gggaagcaca 180
 tagcgagtga taattttctcc gtcggagggt atcagtgggg gatcttcttc taccgggacg 240
 gtaagaatcc ggaggataat tcgctgtacg tctctgtttt tancgcattg gccantgaag 300
 gaaccgaagt tagggcgctt ttcgagctan ctctgtttga ccaaagtgga aaggggaaac 360
 ataaggttca taaccatttt gaacgggtcac tccaaggggg gccctaaaaa ac 412

<210> 3906
 <211> 408
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3906

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 cctgaaccct agcggaggaa aatcaaaaat tgtctaggag aaacaaacag agatatcttt 180
 ctttcttttt atcagtgggg aaaaaaaatg cagaatccga gactgannnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ctctctttac 300
 catcctggtg ttttggtctc tctcagttg gagcctgttc caagtggaaa ccttcctcct 360
 ggttttgatc ccaagtactt gccgtagcgt gtatgttgga aacatcca 408

<210> 3907
 <211> 414
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3907

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 ccgacgtcac tctccggtgg cttccatata tttctccctt aagcaaccac caccgcaacc 120
 accaagaacc tctgagagt cctcctgacc tccgccgccc ggagaaatct attggnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntaa aaccctctt aagattaatc 240
 cactcaaggg tttaaccaat cgctcttctg tgtctcctct tgttcaatca gaggtttcga 300
 gtaaagtttc ttctttggc tcctctctag catccaagct acgtttgtcc agcaagnnnn 360
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<210> 3908
 <211> 423
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-068-Q1-E1-D11
 <400> 3908

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 ctggaaaact gcagagctca taaaacagag caaatccaat acgagtgatg aatatgtacg 180
 ctcttttata gacttccaag agctgcatca caaagatgga atcaatgccg gtacaggagt 240
 gaccggattc acggactggc gatacttggg gcattccacg attgattttg gatggggagg 300
 acctgtgacg gttttgccac tatcaaacia gttgcttggga agcatggaac catgtttttt 360
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 ggg 423

<210> 3909
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-068-Q1-E1-D12
 <400> 3909

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 gaagatgaat ctgaagaatc ttcttcaaga ttcgggttta ggaagtctt gcgcagcaaa 180
 gtggaaggcg ccatcgagtc tcgagggttt cacattggag ggaacaagaa ggatgaagat 240
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<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-068-Q1-E1-E4

<400> 3914

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ggcgtgttgt tagtaacttc gttgcacagg cactaacgaa agagccattg actgttttacg   180
gtgatgggaa gcacacaagg agtttccaat ttgtttctga tctgggttga aggtttgatg   240
agactgatgg attctcgaaa caccgcttca accaagaatt ccgtggccct cctaggcgctc   300
aactcattac catcttccgg gttagtttctn cagttcttaa cactagagcc cgaagtttac   360
cttttaaacc ttattttcct tctcctcttc actgttacag gtttancctc tc           412
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<210> 3915

<211> 466

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-068-Q1-E1-B12

<400> 3915

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gaaccttaaa tgtgattttc tccaattttc ctaagctccg tgcctcagaa gctgctactt   180
tctgcatccc tcatttggtg ggggcgctca aatctgggtg tgaagacgct cagggattag   240
tattggatat tctttacttg ctaagacact cctggacgaa tatgtctata gatgttgcaa   300
agtctcaagc catgattgca gctgaagcaa ttcccgctct gcaaagtctg atgaaaacat   360
gccctcctag gtttcacgac aaggcagata gcttattgca ctgcttacca ggttgcttaa   420
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<210> 3916

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-E1

<400> 3916

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nnnnnnnnnn gttttgcgtc tgattttctat aaggctgggt ctgattgggt ttgttttagtg 180
gaagatgaag agactgtttc ttcttctgtg aagaagatga aacagtcgaa cttgtttcag 240
atttgggggt tacaagagaa ttctcctgat acaacgaaga agatgaaaca aactgatttg 300
tttcagagtt ggggtttaca aaagccttct cctttcactt cacctgcttc gaattcggcg 360
aagaagacga cgagtgtctt tggaaaaang cgtaaaagac tcctcgttta acaatg 416
  
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<210> 3917
 <211> 436
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-E12

<400> 3917

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ggaccagtca cgctgtttgt tgaaatcttg aacaagtaca tttacttctt tgagaaangg 180
aatccacata tcaactccatc tgatatacag agcctcatag aattgatcaa caatgagatg 240
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ttccaaagaa aatgtt 436
  
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<210> 3918
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
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 tccccgcaag taacagtcag agaatctctg attttctctg ctttccttcg tcttcctaaa 180
 gaagtcggca aagatgaaaa aatgatgttt gtggatcaag tgatggaatt ggtagagctg 240
 gacagtctta gggactccat tgttgggtta ccgggtgtca cggggctttc cacggagcag 300
 agaaagagac tgacaatcgc ggtggagctt gtagccaacc cttccatcat ctttatggat 360
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<210> 3919
 <211> 418
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-E4

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 gacaagggtt agtttcttct tanctctggt aatgacgggtg gtgattcttg ctcttctgt 180
 cgtctctgga gaaaatgggt tttccgatct taaaatccgt actcacttga aacgactcaa 240
 caagccaagc tctcaaatcg attaaagagc ccagatggag atatgattga ctgtgttcca 300
 atcactnacc aaccannnt ttgctcatcc tctgctcatt aatcacactg tccagatgtg 360
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<210> 3920
 <211> 413
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-E7

<400> 3920
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 ttctgggaac tgattcatct cctattcgtc ggcattgctg ttgcttatgg tttgttttagc 180
 cgtaggaatg ttgaatccgc tgttgattta aggatgactc gtgtagatga gtcttctttg 240
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 tcttgtgagt ttgttgatgt gaggagtgat gaagagtgtg agtgctcgag cttctgtggt 360
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<210> 3921
 <211> 469
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-F12
 <400> 3921

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 gctctaaatg gaaagacctt tgacgacaag gagtggtttg ttgggaaggc caaaaagaag 180
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 agtggagtga gtagaggatc tggattttgtc gcattttcaa ctctgagga agcaactaga 420
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<210> 3922
 <211> 477
 <212> DNA
 <213> Arabidopsis thaliana
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 <223> Clone ID: LIB22-066-Q1-E1-F4
 <400> 3922

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3923 3924 414 416 3923 3924

gtagagaaca aagcttttgct ttctcgggtgc aatcaccaat tgtgcatacc gacaagacgg 180
ccaagttcga ccttccggtg gacacagagc ataaggcaac ggttttcaag ctcttctcct 240
tcgccaaacc tcacatgaga acgttccatc tctcgtggat ctctttctcc acatgttttg 300
tctcgacttt cgcagctgca ccacttgtec ctatcatccg ggagaatctc aacctcacca 360
aacaagacat tggaaacgcc ggagttgcct ctgtctctgg ggagtatctt ctctaggctc 420
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<210> 3923
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-F5

<400> 3923

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agatcgccgg cgactattcc gatgaaacgt ccggaaactc cttcttcttc tcacttttct 180
gcttctccgg ttactttctc tagtccatta ctacgttcta gtcttagtcc gtctacttcc 240
tccgccggc cctctagtac ggctgttgct tccacgaaac tgaaggagaa tattacaagt 300
cacgattcgg ttctgtcttc tcagtccacg agagggtcaat aatggagatg agattgcgtg 360
gtatgcagat ggagactaan actattagga atgagtataa tccatctctt tggt 414

<210> 3924
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-F6

<400> 3924

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atctttctcg acttgcaagt cgggtacaatt ccatacggaa atcatgaaaa taagcgacgt 120
ggatgtctct gatattcatg gaggcattgga tcagaacaga agaactaaaa cctttttcga 180

cttcatgaaa gcaaagaaag gtatcttgtt atgtactgat gttgctgctc gtgggtctcga 240
tattccttcc gtggactgga ttatacagta tgatccacca gacaagccaa cggaatatat 300
ccataggggtt ggtcgaacag cccgtggaga aggagcaaag ggaaaggcat tacttgtctt 360
gattcctgaa gaacttcagt ttattccgct acctgaaggc tgccaaagta ctgtta 416

<210> 3925
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-F8

<400> 3925

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gtttctccat tctcaagctt ccattatctc aatctccagg acaagaatcc tcaaacgggt 180
ctctcagaat ctctctgtag ctaaagctgc ttcagctcaa gctagtagta gtgttggtga 240
gagtgttgc caaacatcag aaaaagatgt gttgaaggct ctgtctcaga ttattgatcc 300
tgattttggg acagatattg tttcttgtgg ttttgtgaaa gatttgggga ttaatgaagc 360
tttgggtgag gtttcgttcc gtttggagct gacaacaccc gcatgtccag tcaaaa 416

<210> 3926
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-F9

<400> 3926

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catggagact cctcagtagc tgatattgaa gaggggaaggg aaagtcaaga agagatgaca 180
gagacacang angacagtgt tatggctgat gaagagcctg aaggaagttg aggaagaaaa 240
taagagtgc ggaggaaaga agaaacgggg gagaaatata aagacagtca aaggacagg 300
aaagaagaaa gangaagatg tttgttttat gtgctttgat gggggtgatc ttgtcctttg 360

<210> 3929
 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-G7

 <400> 3929

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 ggcggtcggg ggtggaagca atctgatcaa caaatggaac ggaaaggctt attctcagag 180
 gtatttcgag attctggaga agaggagaga tcttcccggt tggctccaga aagatgactt 240
 tctcaatact ttgaactcta atcaaactct catactcgtc ggtgaaactg gtagtggtaa 300
 aactacacag attccacagt ttgtattaga tgctgtggtg gctgacaact ccgataaggg 360
 aaggaaatgg ttggttggat gtaccaantc ccgtagaagt tgctgcaaatt gtcctgt 417

<210> 3930
 <211> 413
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-G9

 <400> 3930

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 gtgtaccaa acagagccaa ggaatgccat ctttcaccaa gtgcttcata aactcgccgc 180
 catcatcgat attcacgggg tccaagatcg aagctgagga tggttctccg cttgtgatcg 240
 agctcgtgga cgccaccaca aacactctaa gttagtacgg gaccgttctc gtcttctcgg 300
 gtcgagctcg tgccgctgaa cgctgatttc acggaagaaa gctggaccgt tgagggattt 360
 aatcggaata ttctcaagca acgttnnaang gaaacttccg tttgcncact ggg 413

<210> 3931
 <211> 412
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-D7

<400> 3931

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atcgcccgga ccggtttatc gatgtaaata cgctaaagat ggctctctcg atctccctac  180
cgatattgat tctccttggc agttcttttag tgaggctgtg aanaaatatc cgaatgagca  240
aatgttgggc caacgcgtaa cgactgattc taaggctcgt ccatacacgt ggatcacata  300
taaggaagcg cagcagctg caattcggat tggatnagca atcanaagcc gaggcgttga  360
tccgggacac tgttgtggta atttacggga gctaantgtc cagaatggga tt          412

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<210> 3932

<211> 456

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-B10

<400> 3932

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gttggttggt ttcccgatga cttnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn  180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna gaaagggaga ataatcggag  240
gagagaaaga cggagaagag ctgtagctgc gaagatatac actgggctta gagctcaagg  300
tgattataat ttgcctaaac attgtgataa taatgaagtc cttaaagctc tttgtgttga  360
agctggtttg gttgttgaag aagatggtac tacttatcgc aagggatgca aagcctttac  420
ctggtgagat aactggggac ttcaccccca gttacn          456

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<210> 3933

<211> 472

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-B12

 <400> 3933

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 tcaacaaaag tagcagcttc ctcaacacca tccctaattg ttctctgctt cgagacctaa 120
 acatgagctc tgtatatccc aaaaggaaaac tcttcctga ttttctcaca gatgaaatct 180
 ttaagagtca tcgacatgtc ttgggaacca cttcacccgt agcttccttc tctctatctt 240
 caatctcact gacttagagt atctcaattt caatgagaat ccagagcttg atctatggga 300
 ctctaccgga ttctgtctct aagctgacaa agctcacaca catgctcttg atgacgtgta 360
 tgctccatgg taatatccca agattcattg ggaacttgac ttctcttggg tgatctgaac 420
 ttaacgggaa antcctcccc cggngagaat tccaaaanga aattagggga ac 472

<210> 3934
 <211> 420
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-B2

 <400> 3934

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngacc 120
 acgaagctaa accctcaatc tccccactc attttcactg gtacacttcc tctcttgctt 180
 cactcacctc ttctctctcc tccattatcc acacatacga caccgttttc catggcttct 240
 ccgctagact cacttcacaa gacgctagtc aactcttaga ccatactcat gtcactctctg 300
 ttaacccgga acaagtccgt cacttgcaaa caactcggtc ccctgaagtt tcttggtctt 360
 angtcaccg acaaagcggg tctactcgaa agagtctgat ttcgggtcgg gatctaagtt 420

<210> 3935
 <211> 412
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-066-Q1-E1-B5

<400> 3935

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aactgaagta aataagacag tcacacaggc tttgttgatc atggtttcta tgttgcaact 120

tgggcaatct cctgtttctc cacaccctat tgataatgat tcgtatgaga ggattgtggt 180

gtgcataaaa ttgctttgcc ataggaatga tgagatgaaa aagatatggt tagaatcctg 240

ccgccagagt tttgtcaaga tgatttctga aaaacagctt agagagatgg aggaactgaa 300

ggcgaagacc caaacaacgc atgctcaacc tgatgatcta attgacttct tccatctaaa 360

gagtcggaag ggaatgagtc aacttgagtt ggaagaccaa gtacaaagat ga 412

<210> 3936

<211> 413

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-C1

<400> 3936

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tgatagataa gatccagtca ttagccgacg aaggcaaaac agcgttttcc ttcgaattct 120

tcccacaaa gacagaagat ggagtcgaca atctctttga gagaatggat cgaatgggtg 180

cttatgggtcc aacgttttgc gatatcactt ggggagctgg tggatctacc gcagatctaa 240

cgcttgatat agcttcgagg atgcaaaacg ttgtttgtgt tgagagtatg atgcatctta 300

cgtgtactaa catgcctggt gagaagattg atcatgctct tgagactatt agatctaattg 360

ggattcagaa tgtgcttgct cttaaagggtg atcctcctca tggtaagat aag 413

<210> 3937

<211> 460

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-066-Q1-E1-C12

<400> 3937

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tttttttagg gttttcgtaa gaacagagca aaaaacatgt ttggaagagg accttcaagg 120

aagagcgcata acacaaagtt ctacgagatc cttggtgttc ctaagaccgc agcaccagaa 180
gatctcaaga aagcttataa gaaagccgct atcaaaaacc atcctgataa ggggtggtgat 240
cccgaaaagt ttaaagagtt agcacaggct tatgaagttt taagtgatcc tgagaagcgt 300
gagatctatg atcaatatgg ggaagatgca ctcaaggaag gaatgggtgg tggaggtggt 360
ggacacgac catttgatat cttctcttcc ttctttggta gtggtggaca ccattccgg 420
aagtcataac ccggggaaag gaggcaaagg ctttgggttaa 460

<210> 3938
<211> 417
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-066-Q1-E1-C4
<400> 3938

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gacgagattc tcgccgtgat tcccaccgac ctttatgac aactcgacct cgccaggaag 120
atcacttcca tggctatcgc ttcaaggggt tcgaatctgg aatctcaagt ctccggcttg 180
agacagaagc ttcttgagaa ggatcggctt gttcatgaac ttgaagacag agtctcttcc 240
tttgaaagac tttaccatga agctgactcg agtttgaaga atgttgtcga tgaaaatatg 300
aaactgactc aagaacgaga ttcactggca atcactgcga agaaactcgg tcgtgattat 360
gcaaagttgg aagcattcaa gagacaattg atgcagtcac tgaatgatga taatcca 417

<210> 3939
<211> 415
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-C6
<400> 3939

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aaaacatctt cgtcatgcgt cacggtgac gaatcgacaa tttcgagcca ctctgggttt 120
caaccgccga gagaccttgg gatccacctt tgggtcaaga cggtatgatt cgagcggtttc 180

cgttggtttt gccggccttg ttgcnnggtgc ttgtagtatg gctattggag agtttgtgtc 360
 tgtgtgcacc caaagggata ttgaaactgc acagatgaag agagctattg aacataagac 420
 atcactatca gcaatcgacg aacaaagang gaaggaagag aaagaaanga aaagggctgc 480
 ca 482

<210> 3942
 <211> 458
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-D12
 <400> 3942

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 tcgtgatata ctaaaaaaaa tgcaatttcc tcttctctct tataagcaga gaccctacta 180
 ctctttgatc gaattttcct tgctctcttc tctttgttct ctcatgtttt tttctcccta 240
 aatttatggg ctttgctctc tctctaagcc aactcacac tctaaagcac tcgtctttct 300
 tcttcttttt cttcagaaac agttattttg acttgaaaaa ccagagcttt aatcctggat 360
 tcatggcaaa aagagcatta cttttctttt cctctctcac tttcttgttt catttggtt 420
 aaaaattcaa tgataatttt ggaattgggg ggaaaaaa 458

<210> 3943
 <211> 422
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-066-Q1-E1-D2
 <400> 3943

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 aaaaaacat gcattcactt ccggtgaatc tcgtctcac cgtacttacg gtgttcttaa 120
 catcaccggc gcaagttatc ggataccgtc catatccacc aaaaaccaac ggctccgatc 180
 aaatcttcga cgcttcaaaa aaattcgaag gctcatcgaa tctcgtcgc ctcggttacc 240
 acatgggtcc agtcttaacc aacaacatca ccgttcaccc aatctggtac ggcacgtggc 300

aaaaatccca gaagaaaatc atccgtgagt tcattaactc aatctcagcc gttggattta 360
aacacccttc agtctccggt tgggtgggaaa accgtacagc tttacactga ccaaaaactgg 420
ga 422

<210> 3944
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-D5

<400> 3944

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caacggagaa accaaataac aagcacgcgg ctgattcggt ttccagcgag gatttgggtct 120
cacgcggaga aaccaaataa caagcacgcg gagatcaatt atttttatatt tcgtagaatc 180
tgattgaaat attaagaaaa aagagaaaaa agagaggaaa agagcaaagt aagtaggata 240
gatggctagt gtccagcaaa atgggcaacg gtttggcggt tcagaaccta tctctatggg 300
aggaccaacg gagtttgatg tgatcaagac aagagagctc gagaagcact tgcaagatgt 360
tggattgtac gagagcaagg aggaagctgt tagaaggag gaggttctgg ggat 414

<210> 3945
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-D6

<400> 3945

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tcgatgaaaa tgagacgagg caattcaagt aacgaccatg aacttgggat tctacgagga 180
gctaactcgg acaccaactc ggacacggag agcatcgcta gcgaccgtgg tgccttttagc 240
ggtccgcttg gccggcctaa acgtgcgtcc aagaaaaacg caagattcgc cgacgatctt 300
cccaagagaa gcaatagtgt tgctggcggc cgtggtgatg acgatgagta cgtggagatc 360
acgctagaca tcagggacga ctcggtggcc gtccataatg tccaacaagc aagctg 416

<210> 3946
 <211> 470
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-066-Q1-E1-A9

<400> 3946

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nnnnnnnnn nnnnnnnagg ttgcaaaggc ttcttcgagt ggacagaaga agaaggacgt 180
caagaaggaa acgggtctcg gactcagtgt taagaaagat gagaacttcg gggaatggta 240
ttctgaggtt tgtaaacaag atatgattga gtactacgat atctctggat gttatattct 300
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gaaatgaag gtcaagaatt gctatttccc tctgtttgta tctcctgggt gtcttaaaaa 420
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<210> 3947
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-065-Q1-E1-G10

<400> 3947

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ttgtcctct actccacttc cacctccgga gataggtaac ttcgtcgtca angtcgagac 180
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ncagtccaaa gttactgatc ccaccaaaga agaaactgga ggagtaccgg agattgctga 300
gtcttttgggt aatatggaag tgactgatga gtctcctgat cagaagccag gacaatttga 360
aagagacttg tcgacgagaa agcaaagaat tt 392
  
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<210> 3948
 <211> 388
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-065-Q1-E1-G11

 <400> 3948

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 ttccgaggaa cgccgctctc gtgagctcaa ggatggagac catcctttac ggtacaagtt 180
 ttcgatatgg tacactcgtc gcacaccagg ggttcggaac cagtcttatg aagataacat 240
 caagaagatg gtagaattca gcacgggtga aggattttgg gcctgctact gtcaccttgc 300
 tcgttcttct ctcttgcta gtccaacaga tcttcatttc tttaaggatg ggattcgtcc 360
 attgtgggag gatggtgcc aactgcaat 388

<210> 3949
 <211> 459
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-065-Q1-E1-G2

 <400> 3949

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 attccccgaga gaaagaaaga acaaaaaaaaa aacatccgag tgaaaatgag agaaattctt 180
 catattcaag gaggtcagtg cggaaaccag atcggagcta agttctggga agttatttgc 240
 ggcgagcacg gtattgatca aaccgggtcag tcatgtggcg atacagatct acagcttgaa 300
 aggatcaatg tctattttta cgaagctagc ggaggcaa atcgcttctcg tgctgttctt 360
 atggatctgg agcctggaac tatggattct ctcatgctg gccggtttgg gtcagatttt 420
 ccggcctgat aacttcgttt ttggtcagtc cnggtgctg 459

<210> 3950
 <211> 411
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-065-Q1-E1-G3

<400> 3950

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gaaagatgga taaattgaag ccaataatag caatcatatc actccaattt ggatatgcag 180

gcatgtacat cattactatg gtctccttca agcatggcat gaaccattgg atccttgcta 240

cttaccgaca tgcgtcgcc acaattgtca tagctccttt tgctctcatt ctcgagagga 300

aaataaggcc taagatgaca tggccattgt tccttaggat tcttgccctt ggattcctag 360

aaccactttt ggaccaagaa cttgtactac atangaatga aagccacgtc a 411

<210> 3951

<211> 405

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-G4

<400> 3951

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gttaggcatg aaggagatcc tgattttgaa gatggtgatg atgctgattt tccaatgatg 120

gatgagggaa ggcagccatt gtctaggaag ataccaatca aatcgagcaa gataaatcct 180

taccggatgt taattgtgct acgtcttgtg attcttggtc tcttctttca ctaccgtatt 240

cttcaccccg tcaaagatgc atatgctttg tggcttattt ctgttatatg tgagatatgg 300

tttgctgttt catgggttct gatcagttcc ctaaattgga ccctatcgag cgagaaacgt 360

acttgaccg actctcatta agatatgaga aagaagggaa accgt 405

<210> 3952

<211> 468

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-065-Q1-E1-G5

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 ggtggaagca tggagaaaat taagccgata ttggcgataa tttcactgca atttgggtat 240
 gcaggcatgt acatcatcac catgggtctcg ttcaaacatg gcatggacca ttgggttctt 300
 gctacatacc gtcatgtcgt agccacgggt gtcatggctc cctttgctct catgttcgag 360
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 attagagccc ctcatggacc anaatttgta ctacatagga 460

<210> 3955
 <211> 406
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-065-Q1-E1-H4
 <400> 3955

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 <211> 441
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<210> 3957
 <211> 441
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 <400> 3957

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 cacctgatcg gctccgggtg tcccagcggg ttccgggtcaa gatccaccgc cgatcatgtc 180
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 agcgtcaaaa ccgccgagga aacaaaggct cgtatactgt cggaagtttc ctgatgcgga 360
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 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3958

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aagcacccaa atccagtttc tcaactgttga agctagaaaa caatctagaa gaataagacg 180
 cgagcgctcc ttcagccctt ttccagtact tattcaatcg aaccgctcgtc ttcgctcatgg 240
 tttctcagag ctcaattcga gttttgatcg ttccaacagt ggagaaactg gttccgatac 300
 cactcttaaa gatggtgaag aagtgaggag tgaaagctct tcagggtgttg gtgatagcta 360
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<210> 3961
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3961

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 tattagacaa gcaaatgtcc ttatctctct aaagcaaagt tttgattcct atgacccctc 180
 tcttgattca tggaacattc caaatttcaa ctctctatgt tcttggaactg gtgtttcttg 240
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 ctatctctcc ggaaatatct cgtctttcgc cgtcacttgt ttttcttgac atttcttcta 360
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<210> 3962
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-066-Q1-E1-A8
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 ccaaactaag ccgagcaagt ttccctaata ggtttgtgtt tggcacagct actgctgcgt 180
 ttcaggttga aggtgcaatt aatgaaactt gtcgtggacc tgctctatgg gatattctct 240

gtaagagaaa tccagagaga tgtagtggcc acaacgccga tgtggccggt gatttcttcc 300
atcggtataa ggaagatatt caactaatga agaattctaaa cacagacgca ttcaagactc 360
tcaatcgcat ggtcaagaat atttcctcat ggggaaaaaa ggagaaaggg attgagtca 419

<210> 3963
<211> 391
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C12
<400> 3963

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agaactcttc actcagatgt ttctcaactt catcaatctt cgtcaagcga atcgctcgat 180
tcttatagaa gaagagaaag tgagaacaga aacggaaata gcaaaatctc cgggtggattt 240
cacgacgttg gagcttcaca atctcatgta tgagaagagt cattacctca aagctaataa 300
agctagtaga gatttcanat ctangtatcc aaacatcgat ntcatatccg aacaaagact 360
tcttcagtga tgctcccgga agcaatcaaa t 391

<210> 3964
<211> 417
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C2
<400> 3964

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gatgatggta gaaccgaatc agctcgttca acatctcgaa acttttggtg aactaatcg 120
ttctcttctt caacaggatg atagtcttaa agcaattgct tcttctttgg agaatgatc 180
tttatctatt acccaattgg ttagagagat ggagatgtat ttgacaacaa ccgataacct 240
cgttcgagca cgaggatttc tctgcttgc ggagattctc gattgtttga aagcaaagcc 300
gttgaacgat acaatagttc atacgctcgt tggattcttt tccgaaaagc tggcagattg 360

gagagcgatg tgcggggcgc ttgttggttg tttggctcca ctgaanaagg aaagatg 417

<210> 3965
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3965

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 tgtctccgac gaagagaagc tgacacttct ggtttcgtca atttctactg ggataaagct 180
 ctctactacc tttttgctca gagaaaatgg tttgattttc gaggatgata aaggcttcag 240
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 tatgtgcctt tgatgaaact aaataatgcc ccggggagag ttagctatgg gctctttaga 360
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<210> 3966
 <211> 397
 <212> DNA
 <213> Arabidopsis thaliana
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 gcttcctgaa ggaaaatcaa cagattctca gaatgttgca cctgttcaag atcattcatt 180
 atctgatgca gagagaatcc aacgagagat tgcagcaacg tctgtgcagg ctgcgtttag 240
 aggttacttg gctcggcgtg ctttttgggc actcaaaggc ataataaggc tacaagcgct 300
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<210> 3967

<211> 393
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-064-Q1-E1-C9

 <400> 3967

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 cgtggctatt agttggcatg ccaaaccttg tcaaggcgtg gaatattgaa accaatgctg 180
 accagagtct aagtggacct gttggccaag tctattctct tgttgtgggt actgatctgc 240
 tctttgctgg aacacaggat ggctctatct tggcatggag atataatgct gccactaact 300
 gttttgaacc atcagcgtca ctgacggggc atacacttgc agttgttacc ttatatgttg 360
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<210> 3968
 <211> 412
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
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 <400> 3968

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 gcgtcaagat cggagatccg taccgttgggt tagaggatcc tgatgctgaa gaagtgaagg 180
 agtttggtgca gagccaagtg aaattgacag attctgtact tgaaaagtgt gaaacaaagg 240
 agaagctccg tcagaatata acgaaactta ttgatcatcc tcgttacgat tcaccattca 300
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 atatgcagga taatccggat gctgaaccaa naaggtttgc ctgattccga ac 412

<210> 3969
 <211> 415
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-D2

<400> 3969

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atccagaaaa gttttactct ctttcatttg gtcagcttac cttcttgctg attgggtctgc 180
caatttcgcc gccggacaaa tctcagatag tcaaggagat gatccagaac ccggagaacc 240
gaaaaagagc gccgagttgt ttgctttctg ggttcctttc ttgctcttgc atctcgggtg 300
tccagataca atcactgcc cttgcccttg agataacgag ctctgggtca agcacttggt 360
gggtcctttc tttcaatcaa gttgcaaacc gtttacgttg ctttttgcaa gtncg 415

<210> 3970

<211> 408

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-D5

<400> 3970

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gctcaatacc tacgtcgggt cgagccgggt tggcaaacgg ttcaaactcg ccgaacgtaa 180
ttcaaacttc acgacggagc tccgtgctgg taccgccact ttcttaacca tggcttatat 240
cctcgccgtc aacgcttcaa tcctttctga ttccgggtgg acttgctctg tttccgattg 300
tatccctcta tgctcaaacc cagcgatcga accttcgcag tgtaccggac cgggtctccg 360
attaatccaa cccgacgttt cctgtaaaat caaacccgggt taatcctg 408

<210> 3971

<211> 401

<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-D8

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ccgtatctag gagtcacctc agatctgtgc ttaattctcc ggtaacatta ccggcatcac 120
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 ttttaacgatg gcggcgaaga cggccaagat caaaagctac gccgacgaag gaaaatgggtg 240
 tcagagtcga ggaaggattg agtctgttca agtctgataa gttcgatgct gatgcttatg 300
 tgcaatccaa atgttctatc aacgagaagg atataaaagc agttatgctc gtatcctatt 360
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<210> 3972
 <211> 392
 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-064-Q1-E1-E10
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 ttcagcatcc taatgagtac atccgtggag tgacactgag gtttctctgc cggatgaagg 180
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<210> 3973
 <211> 391
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3973

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 tggaacgaat ccttggcctt tcagtgatgg tgtacttttc tttgatagtt caactggaga 180

agaagaagag aaatctccag tttctggtgg tgaaggggtt cctgatacgt tggagcattg 240
tagtgatgat gaaagatttg ctattgtcaa gtatgataac aacaaaacaa atggagataa 300
tgtgcctgct gcagttactg atgatgaacc tagtcacgct gcagatgac tgctaatttc 360
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<210> 3974
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-E2

<400> 3974

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cacattctat gtcacaaacc gaccgcacc ttctctcggt accagcatta acaaactctt 360
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<210> 3975
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-E6

<400> 3975

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aaagacgatg ccgtcgatgt caccttcttc agtttccacg gagaaatctc cacctccgtc 240
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atcgccgcca cattctcttg atcattccag tgaatcggag aaggaagatg cgaaaagtaa 360
 acccgagagt agaagaaaca agaatcctgg aaangttgaa ggaaactcc 409

<210> 3976
 <211> 404
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 3976

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<210> 3977
 <211> 393
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 3977

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<210> 3978
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 <212> DNA
 <213> Arabidopsis thaliana
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<210> 3979
 <211> 414
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 ttgcactagc ttccatattt tcaaccaatt ccgggtgccg ccaaggactt tccttaggtg 180
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 taagtgggtg attggggtgt gacgggtgtt cttcaccgc ctccggatgc tcctgccttc 360
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<210> 3980
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 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-A2

<400> 3982

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 ggccggttcg ataacggagg ccgtgccatc gctcttcgtg gccactcggc gtcacttggt 360
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<210> 3983

<211> 465

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-A3

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<210> 3984

<211> 308

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-064-Q1-E1-A5

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 aaaaaagg 308

<210> 3985
 <211> 390
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-064-Q1-E1-A6

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 gtccgacgcc gagttcgta ggtccgtacg tcgtggaggc ggcctaccgg cggcccgtgt 180
 agttgatagc atatcttggt gacagatgta tctccgtagc tacactttct ctcggaaga 240
 cgacgagagc aaatcggaga aggtgtcggt tgggacgcag acgtcgtgtc tagggagagt 300
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<210> 3986
 <211> 461
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-064-Q1-E1-A8

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acggccttgt tgtgcctcca attttggcgg agcatttgct aacctttgaa cttgaagcgg 180
atgtgaaaac caacgagttt ttcttcgagt tcgaagtcaa ccgttacgaa gtggtgataa 240
aagaatgtgg agtactccaa ctctaagtcc tccatttttt tggaagactg gttgggacgc 300
acttggttga gaacttgaga gaagaacaag acagtgatct attgttattg tttcttccac 360
ttacctgaat cccacctcca gttcctctat aacatccatg gcacggcact tcttcaatgc 420
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<210> 3987
<211> 400
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
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<400> 3987

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agagcagtct taaaatgcat agaagaatac aaactcgagg aagaattccc acccgagaat 180
ctcaagaaga gggttgatca gctagagaag accaaaaccg agaagagaaa accagccgtg 240
attcccgcc acaagagaac ccgagcaagc tacagcggtc caatgccacc agccaaagca 300
gggcgtatca caaacgctta cgtctctctt tteccaacgc ctccaccaac attcatcaag 360
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<210> 3988
<211> 468
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B1
<400> 3988

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tgagaatcct attaggatat ctggaagcaa tgaaagatgg tctaattcta ggaaggtttc 240
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 taatctattg tcacgacagg gcggtctcagt ttacaataac ttgatgctac cgcgttacgg 360
 gtttgaggag cccgtgacca ctcacaccttc ttctaaacat agccttaacc gcataaccttc 420
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<210> 3989
 <211> 379
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-064-Q1-E1-B12
 <400> 3989

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 cccccacgta agctcaataa ttattgagag gatattttat atacatgcta atctagtaca 180
 catatacaat ctagtaacaa tannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
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<210> 3990
 <211> 411
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-064-Q1-E1-B4
 <400> 3990

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 ccggggaaca ggtgatcgga atcacggcta tacacgggat atcacggggt gtttagctcac 180
 atgtccatat tgtccgacag aagggttggt taatcgaaac taatcctttg ccgcacggag 240

gacgtggagc tctgccgtct gaaggcggca gcccttcga tctcctcttt ctgcgcggtg 300
gcggttccag ctttaacttc ttttccttta ggttttagga gttanggttt gttagtgttt 360
tttccttctt cnttttttgg tgctccttaa nccccctttt cctgggggna a 411

<210> 3991
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B5

<400> 3991

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gtattaaacg tgctcgatct atatactcaa tgatcttata tgtgtatgat catgtaattt 180
ggaagttgaa atgtaaataca tctattcctt ggtaaattat tcttcgattt tttttctgat 240
ataggttaat ggtaattcct gtgattttta ctgatgtaat ctggtgttga ttgtttgtgaa 300
ttcttgatct atgagattat gtcttaagat ttgccaaatg ttaaagtttg tttgatcttt 360
gacaaaatat tgtaggttta aagtaaaaaa gcaatgggag gtggtaaaag acaagcatca 420
tgatgagcaa gagaaa 436

<210> 3992
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-B7

<400> 3992

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aatactagtc aaaatggatg gatggttcta gaagcaggga acggaaaaag cactccaaga 180
gacaagttat gcctgccttc ccattcggtta caagttcttt ctaacagtgc atttcaacct 240
ctgggatacc cttcaactga ccacagcaag ttatcgggcg aaagagcatc tttcaaatgt 300

gaagttcgtc aaaggaatcc tgaggtttcc gtatgataag ctatgtggaa tcaagtgtgg 360
catcaaatgt tccaaggctt gaatcatgg 389

<210> 3993
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-H3

<400> 3993

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atcgtggcgg tatcgcttcc atcgacgctt ccacagggtca aaacctcacc ttcaccgagc 180
tatggcgtgc cgtggaatcc gtcgccgatt gtctctccga gatagggatt cngcaaaggc 240
cacgtcgtcc tctctctctc cccaaactca attttattcc ccgtcgtttg tctctccgtc 300
atgtcactan gcgcaatcat caccaccagc aatccactca acacttcaaa cgangatcgc 360
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<210> 3994
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-C10

<400> 3994

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ttcatcaaat ggactctctt cctgatgcga tcttcaata cattctttcc tacctgactt 180
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ctgactccat cgttcggaag atgatctctt cttctcgtcg tcttgaggag cttgtggtgt 360
ataaccatt cactagcagc gggctagcat cttgggatga tgcaatgtta ngttcaactc 420

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435

<210> 3995
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3995

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caaatatcat ctcttcgac tgtatgacta cttctacttc cgggagcacc tgttaatagt 180
atgtgaactt ctcaaggcaa acttgtatga gttccaaaag tttaataggg aatcaggggg 240
agaggtttat ttcactatgc caagattgca gtcaattact atccagtgc tgggaagcatt 300
gaactttctg catggtctcg gccttataca ctgcgactta aaacctgaaa acatacta 360
caaaagctac agcagatgcg anatcaaagt tattgatctg gggaagtagc tggt 414

<210> 3996
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E7

<400> 3996

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gcggtaacca gattggttcc aagttctggg aagtcactct cgacgagcac ggcacgatt 180
ccaccggacg ttacagtgga gacactgcag atctccagct tgaacgtatc aatgtctatt 240
acaatgaagc ttcaggtgga agatacgttc ctctgtctgt tcttatggat cttgagcctg 300
ggtactatgg ataagtanca gatccgganc gtttgggtcag atcttccgtc ctgataaact 360
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<210> 3997

<211> 421
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-063-Q1-E1-F1

<400> 3997

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 cgatccactc tggcttgata cagctgcgag accttgggat cctcctctcg ttcaagacgg 180
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 ccgtgtcttc gtctctcctt ttatccgatg tatacagact gcttccgaaa gtcacgctg 300
 gctctctccg ccgtcgattt cgatcctaac gctacttcgt ccaaagacgt cacttcaatc 360
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 t 421

<210> 3998
 <211> 407
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-063-Q1-E1-F10

<400> 3998

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 acacgaagga tgttttgggtg gtgacggcta aaggaagttc tgctgagatt ataccctttt 180
 tgaagacatg ggtgaatctt ccgatggcta ttgggtttat gttgctatac accaaaacttt 240
 ccaatgttct ctcaaaaaag gctctctttt acactgttat tgttcctttc attgtcnact 300
 ttggagcctt tggtttcgtg atgtaccctc tcagcaattt gattcatcct gaagctcttg 360
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<210> 3999
 <211> 419
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-063-Q1-E1-F2

<400> 3999

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tcgaactcgc caaacgtctc ataagtcaag acaatcctcg gatccacacc atcaccatcc 180

tcnattgggg attacctttt antcctcaag ctgacacaat cgcttttctc cgatccctag 240

tcaaaaatga gcctcgatc cgtctcgtaa cgttgcccga agtccaagac cctccaccaa 300

tggaactctt gngggaattt gccgaatcnt aacattcttg aatacntcaa agaaaatggg 360

ttcccatcat naggagaagg tctctccact ctcttgtctt ccggcgataa atcgggttn 419

<210> 4000

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-063-Q1-E1-F3

<400> 4000

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ccgatggctg agccttccga gatcgatctc gaagctggag gacctggtga acaaattcag 180

tgccgaatct gccttgaaac tgatggtagg gatttcattg ccccatgcaa atgcaaagga 240

acatcaaagt atgtacatcg tgattgcttg gatcattgga gagctataaa ggaaggtttc 300

gcgtttgcgc actgcacaac ttgcaaggct ccatattatc tgagagttca caagtgctgg 360

agatangaaa tggcggacat tgaaagtttc gcttcnttgg tactcgagac aattta 416

<210> 4001

<211> 416

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-063-Q1-E1-F4

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tacaacgagg cgagtttgtg aaggtacgtt cctcgcgctg ttctcatgga tttggagcct 240
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gtcttcggtc agtcggggtg ctgggaataa ctgggctaaa ggtcactaca ctgaagggtgc 360
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<210> 4004
<211> 416
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G10

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cctccctagc tcgtcctgac aaccatgtcg aggactctgt aggccgtcta cttegtcctg 180
gtcaaacgta ncacatcgta cntgcgaatc ccgagacagg aggaggtatt ttctcgaaca 240
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ccatcangnt tangtcngag ttatggtttg ttaacgaata tgantagtat cnccancgag 360
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<210> 4005
<211> 400
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G11

<400> 4005
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cgcattgactt tgccggagaa gatcgggtcag atgactcana tcgaacgcag agtcgcttct 180

ccctccgcct ttacagattt cttcatcgga agtgtactaa acgctggang tantgtaccg 240
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 gttagcgtcg cgtttgggga attccanntt atctatggca ctgaccctgt ccacggnaac 360
 aantantgtc tacggcgcca ctgtcttccc gtcaanaaag 400

<210> 4006
 <211> 402
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-063-Q1-E1-G12
 <400> 4006

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 agatcgagtt tgaaacctgg agatcatatc tactcctgga ggactgctta natctatgcc 180
 catcacggca tctatgttgg agatgataga gtcattccatt tcacgnanac gaggccaaga 240
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<210> 4007
 <211> 418
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-063-Q1-E1-G6
 <400> 4007

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 cggaatcact cccgagcttc ttccccctgc acgctctctc cgccagagcc ttcgttatca 180
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ttatcaccaa acgctggcaa cgcgttttcc gatgacgttg ctgatttggt cgcgcggttt 360
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<210> 4008
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-G9

<400> 4008

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ncattattga aggtcaagtc ttactcngac aacttcaagt ggaaaggcaa tcctcaacca 180
naaaactgat gttacacctt cttccaattc ttctcganca aaagaagaaa cctcanttga 240
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<210> 4009
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-H10

<400> 4009

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gagctgatcg gtctctatct ctctcttcat acatatctca agcagataaa gttgatcgga 180
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<210> 4010
 <211> 446
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
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 <400> 4010

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gatcatcgag atctcgaggt tatttggccg caatgcagaa gcgaatagcc ttgtcggttc 240
cagaagaggt actanagcat gtgttctcgt ttattcaagc tggataagga taggaactca 300
gtctctctgg tgtgcaagtc atggtacgag atcgagcggg ggtgcaggag gaaagtcttc 360
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<210> 4011
 <211> 487
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
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gccaatgccg atcgttggag aattgatggc tgtgnangga naatggtgtg ntctgttttg 480
  
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487

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agaagaacca	ttatgtcctt	acacgagatt	accaatggcc	gacccgaatc	aagaaaccca	120
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<210> 4014
 <211> 417
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4014

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gagatcatca ccaattccaa ggtcgattgt ccaaccacgg gacttcttct tcatcatcat  180
caatctctaa agataagatg atgatgggtga aaaaagaaga agacgggtgga ggtaacatgg  240
acgacgagct tctcgctggt ttaggttaca aagttagggtc atcggagatg gcggagggttg  300
ctttgaaact cgaacaatta gagacgatga tgagtaatgt tcaagaagat ggtttatcgc  360
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<210> 4015
 <211> 395
 <212> DNA
 <213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-A11

<400> 4015

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 ggttcacatc tctgtgaaaa gctcttgacc gagacgccac ataaggtgct tgcgctcgat 180
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 gcggnctctga ttataaatct tgctgcgatc tgtactccaa gctgattaca atacacgtcc 360
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 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-062-Q1-E1-A5

 <400> 4017

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 cttggagaag aaagccaagc aaaccagaa acaggtaagc gaggagaagg taaccgatga 240
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 gtccagtgat gttaagggtg ctgagaatgg gtctgttgct aaaccagtca caggcgatgt 360
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<210> 4018
 <211> 432
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-062-Q1-E1-A6

<400> 4018

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tcgccggaga agaagaagaa tgaaggagga gaagaaagac gacggagtaa tggctgagga 180

gaagccttac atgttctgga tttggacttt ggcttctacg attttccgat tattcctgat 240

cttttccccg gcaaatatca acctatcttc ccgtccggag gtctccaccc ctcacaccag 300

ccttcgccgc cttgctgaag gttactgggt gaagcagtca tcaactgtcg catacgcagg 360

atcaatgtat catggctctc cattgctact ctccattcct cggtcntctc acagttcaga 420

ggatcgangg gc 432

<210> 4019

<211> 316

<212> DNA

<213> Arabidopsis thaliana

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tcgctaaaga gtcagcagct taagagattg attcagatct ttcagtctta atacttctct 120

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aatctgagtt ccgtaattat agtttctttt ggttcaaatt ccatgagagc tggcaagatg 240

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<211> 395

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

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tttaactggg acgaagactc tctccagtta caacttagag atgggttctc ttcagaaaca 360
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tcacangaag cttt 434

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<211> 432
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-062-Q1-E1-B6
<400> 4023

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agaccgagct at 432

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<212> DNA
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<400> 4024

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attccccgat cgccgagctc tctccgtttc tggaaaattc aatctcactc acgcgcgtct 180
tcacgatcta atcgaacgcg ccgcttcacg ccttgctctc gacgctggaa tcaaaccg 240
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gttttacctc tccgattcag attcaaagct attgttaacc tctaaagaag gaaacgcacc 420
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<210> 4025
<211> 434
<212> DNA
<213> Arabidopsis thaliana
<223> Clone ID: LIB22-061-Q1-E2-G11
<400> 4025

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tgtggagata gttagagaga tttatgagat ttcaagaggg gttattataa cgcacgcatg 180
gtgttcgacg gaaagccgca gagaagtttt gttgctatcc gatttgactg agactcaaag 240
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tgagccttgt ctgtttcgaa taagagatac acttaacata caccaaagtg gggaagttaa 420
gtcaacctag agaa 434

<210> 4026
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<213> Arabidopsis thaliana
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<400> 4026

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncaa aagtgcagtg aaaacaccag 180
 gtgtacctg cgatgaaacc acagagaagt taccagatga gagggtgtt gaaccactg 240
 agaactcacc aaangctagt ggcatgaac ccacagagag ctcacaaaaa gcgagtggga 300
 gctgaagtaa ctggaaactt gagagattcc gatcctgctg aatctcatgc ggatgctaaa 360
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<210> 4027
 <211> 410
 <212> DNA
 <213> Arabidopsis thaliana
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 aagcctttga atcactctca tgatttacca gcgccggatc aaaacggaga gacttatata 180
 tgtagctgca tgatttactt gcgaccacg aatgggtgcaa agcttctaata gaagaaatgg 240
 agtgaggaac ttcagtccca agcttgggtct gagtcaatcc gttttaaagc caaatgatca 300
 gccngcttt naaccttgga acttaaaaa ncagccanca angtnanttt tggggnctnc 360
 aacgttcaat tntccaaat cnanngcatn aaatcctcct aagnaacctt 410

<210> 4028
 <211> 434
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-061-Q1-E2-E2
 <400> 4028

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 ccagagctct cgggtgctgat cttgtttcat tcgatcaagc tatctccacc gccgatttcg 180
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ctaagatgaa gaaaggtgtg cgtctcatta atgtcgctag aggtggcgtc atcgacnagg 300
atgcactcgt tagagctctc gatgccggaa tcgttgctca ggcagcatta agatgtgttc 360
tgtgaggaac caccatcgan aagatagcaa gactaantca gcatgaanaa tgttactgtg 420
aacacctcat cntg 434

<210> 4029
<211> 421
<212> DNA
<213> Arabidopsis thaliana
<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-E5
<400> 4029

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ctaagacggt ttatcttggga actttgctta tgacacccga aaggcgaaaag gcgatttggg 180
caatctacgt ttggtgtaga agaactgatg aacttgtgga tgggccaaat gcttcacata 240
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ctttcgatat gcttgatgct gctctcgctg atacanttgc tagatacccg gtcgatattc 360
agccanttcg agacatgatc nanngaata gaanggactt gangaaaacg agataccagg 420
a 421

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<213> Arabidopsis thaliana
<223> Clone ID: LIB22-061-Q1-E2-E6
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cactgtcata ctacccatga gggctcttctt agcacgaaga aagatggaat gatttcaa 180
gtcatgctct gccaatgttg atgtcagcag aaacttcagg gatttatccg cgatgagtgt 240
tttgaacca aaggttggat ggttcagggt caatcatctg cagcttattc acttgtaa 300

gggtgattat gttgatcgag ggtattatc tgtggagaca gtctcacttt tggtagcact 420
gaaaagttcg ttacagaga 439

<210> 4033
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4033

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attaatggat tcagtgaact ccttcaaagg atatggaaaa gtagacgaag ctcaagattt 180
agcattgaag aaaaagacaa gaaaacgtct acttctacta tccatctccg tcgtagttct 240
catcgccgta ataatcgccg ccgtagtcgc caccgtcgtt cacaagaaca aaaacgaagt 300
caacaccgaa gtccacctcc cgagttaaca acatccactt cactcaaagc catttgcagt 360
gtaactcggt tccctgaatc ctgcatttca agtancccaa agcttccatc ttccaacaca 420
acaagatnca gagactcnat tcangctctc aattgaaaag taanccatcn gatgaacttg 480
attc 484

<210> 4034
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-F1

<400> 4034

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tttccccgt ggaaaactgc aattgagtga taacagagat ggtttctcac tgatagacga 180
tacgngtgtt tctgcacaa acaagtttaa cgaaagtgt gatgactttg aatctcattc 240
cattggaaac ctgctccctg atgaaganga tcttttgaca ggnatgatgg atcatcttga 300

cctgggggaa gttaccaa at gctgangatt atgatccgtt ttgggtagtg gaggagngaa 360
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<210> 4035
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 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-061-Q1-E2-F10
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 agtttttaggg tggcaaaaca catgtgagac tgtanaagac atagcagcta ctcttgcagc 180
 cttgaatacc gagatagaca tcagcatcat gtaccgtggt ctgggaccct aagagcacat 240
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 gtgagcacga tcagtggatc atgtacgatg aaaaaaccgt caaggtgatc ggtagctgga 360
 tngatgttct ttcaatgtgt gaaangangg acacttgcag ccacaggttc ttctccacga 420
 aa 422

<210> 4036
 <211> 425
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 4036

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 actctctctt tcttgtacat caccgtttta actgtcatcg gttacaagat tcagtccgac 240
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 tttgggtggg catgatcttc aaccttgtct actgcancgc ccggtatccc aangngngtc 360

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ccng 425

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<211> 427
<212> DNA
<213> Arabidopsis thaliana

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tgtatttaac aaggaagaga gtaaacacat cgtaccgatc ggtacgcttc gcaattcccc 180
gtttatgtct tgtttcgggt ttaagctctg gtggatggcc caagagaatg ggagaaatgg 240
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cttgagtctg acggagctaa cgggcgtcna gtgnaccag aaagtttaca ccgtttttct 360
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<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4038

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acggaatatc aaagatcatt cgggaggtct tttctgaatt tacggcgaga cacggcggtg 180
aactcggttg agtcaacgac ggttaccccc gagttgactc agatggaagc agagcttggt 240
tcgtttcaag agaaaagtgt ctgagaggtt tatcgatctc aatgcgtcta gttgtgaaga 300
tctactgtct ctcgaaatgg gttgggaagc ttcttgatc cgtttctanc ttgtcaagaa 360

gagttccggtt ccanagtcac caatcatcgt tcgatgaata cnaaacaccg atggattgaa 420
gtggtttcaa aa 432

<210> 4039
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<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-G1

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gttcctentc ttcttctctg tcnctcnctt ttggnctctt ttcantcttc gggatnnann 360
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<210> 4040
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-G10

<400> 4040

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aagagagtac aggaagtgc gattgaattg gnaaaaagta cnaatttgac agggatgacc 180
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gctcatgatg tttctaanat gcttgaagct actaggctcc attancattc taattttgca 360
gataaccgag gacatattga tcaactcctgc taagagtgat ncgtgtaatt acatgggaat 420

aggattactt tagagggaaa taccaaatgc ctggattgat ggggaaaaag atgatgtttg 480
attttttg 487

<210> 4041
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4041

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gcttgaccct aagagaaaagc tctttcgcca tagagtgtac cgtgactcgt gtgttttctt 180
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ctgggttaat gacccatcan gataaagaac tcccttcact tgcctgncaa tttcctngaa 360
aagcctaant gnggtttaag aangtaaggc caatgattgc caaagnaant caatctaagg 420
ggagaaa 427

<210> 4042
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-B1

<400> 4042

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aaaccttacc ccggtgctat ctcaacattg aaaaatcttg caacagcggg tgccaaaatt 180
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ggctttgatc cttctttctt caccggagct ataactagtg ggtgaactaa ctcacatc 300
tttgcagagg aganatgatc cttgggtttg ctgcactggg aaagaggtgc aantcacatt 360

acttgznaat gagccgngn agcaatcccc ntngngnggt ccaaatnct aanatgtttg 420
 ttggagaaan gttggaaaa 439

<210> 4043
 <211> 453
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-061-Q1-E2-B6
 <400> 4043

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<210> 4044
 <211> 396
 <212> DNA
 <213> Arabidopsis thaliana
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 <400> 4044

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 attgtcnctt tctttttcga ttaaccacca tttctgtgaa gaaaactttt tgcttgctt 240
 caagattcga agtgaggaaa aattttagct gaaaatgctg gaaattggaa agtcccaatg 300
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396

<210> 4045
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-C10

<400> 4045

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aggtgatgga gaaacagagc aacaacaaca acagtgcagt cattttccga tcaaagttac 180
cggatattta catcccgaac cacctatctc tccacgacta catcttccaa aacatctccg 240
aattcgccac taagccttgc ctaatcaacg gaccaaccgg ccacgtgtac acttactccg 300
gacgtccacg tcctcctccc gccaaatcgc cgccaatttt cacaaactcg ggcgttnaac 360
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<210> 4046
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-C7

<400> 4046

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agctcttgga ctatgaagaa gaagacgaga aggtcccaga ttctggaaac aaagttaacg 180
gcgaagctgt gaaaaaaggg tacgtgggaa tacacagttc tggattcaga gacttccttt 240
tgaaaccgga gcttctcaga gctattgttg actcaggatt tgaacatcca tctgaagtgc 300
aacacgaatg tatccctcaa gctatcttgg gtatggatgt tatctggcaa agcaaagtct 360
ggnttggggg aaagactgct gtgtttgtcn cggctactc ntacnacaag attggnacca 420
tctcctgggc cagggnnttc tgc 443

<210> 4049
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-061-Q1-E2-D12

 <400> 4049

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 agccaagggt acggttacgg cggtaatcca ccacctctc agncaccgta cggatcaacc 180
 ggcaataacc ctctccgta cggatcatcc ggcagcaatc ctctctctcc gtacggatca 240
 tcaggctcct caccgtaagc agttccctac ggagctcaag cgcgctcctt acgggtgnac 300
 caacgtcaag caaccgtaag gcgtctcttt caanggaaga ncanaannaa agnccgnaac 360
 anagnggaaa acctcaacgg gnggctccta aggggggtntc caatctnccc ggggtgggct 419

<210> 4050
 <211> 440
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-061-Q1-E2-D2

 <400> 4050

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 gttcttgact tcttctgcgt ccctatgata gatgtaggaa acgagtttaa tctcccttct 180
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 caccgcgaaa tcaaatacgga attcaaccgg agcttcaacg aggagttgaa tctcattcct 300
 gggttatgtc aactctgttc ctactaaggt tttgccgtca ggtctattca tgaaagagac 360
 ctacgagcct tgggtcgaac tagcagagag gtttcttgaa gctaaggggt attttgggta 420
 attcatacac agctcctcga 440

<210> 4051
 <211> 423
 <212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-061-Q1-E2-E1

<400> 4055

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tgagttgcaa tggatgtaga gttcttcgaa aaggttgcag tgaaacatgc atccttcgtc 180
cttgccattca atggatcgaa tccgccgagt cacaaggcca cgccaccgtc ttcgtcgcta 240
aattcttttg tcgtgctggt ctcatgtcnt tcatcnctc ccgtacctga actccaacgt 300
ccctgctttg tttcagtcg ttgttgtttg aagcgtgtgg gagaacggtg aatcccgtt 360
aacngagcng ttggtatggt ntgggnncan gaactgggca cgtatgccaa gcggnggttg 420
anaactggtt cgtcgccggg ggaa 444

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<210> 4056

<211> 407

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-061-Q1-E2-A6

<400> 4056

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ttcatcagtg actgataaat ctcccaaagg ttttctcgac gaacccatca tccctctcct 180
cgaaaccatc aatcatcacc catcttactt cactaccagt tcctgctcag gtcgaatctc 240
aatcctttct caacccaaac caaaatcgaa tgattcaact aagaagaaag ctcggtggcgg 300
ttcatggctc tanatcacac acgaccagc tgattcggat ttggtaat ttcnncnttt 360
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<210> 4057

<211> 453

<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-F12

<400> 4057

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gccgtgtttt cgatttcttt agagctgcct gtagatcnat cccaccatc atggacattt  180
acaatcttca aggatgtcgt cgctccttct cagctccgct atgctatctc tgctcagatt  240
cggaataacg ctcacatcan cggatccnaa ggtaattgat cntcgtatat tnaaacgaat  300
gganagagct tgctgacatt gtggntcacg caaancagcg tcaccacatc atcgggtcaa  360
tatgtngtng gtgaancggc tccgtgcagg atactgggaa aacanngatc angggaaaag  420
actgganttt cncaagaaat ttctaaaacg agn                                453
  
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<210> 4058
 <211> 484
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-F2

<400> 4058

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atgcacatta tagagaactg ctatgaaaac tatgaaacgc ccagtgaaaa accagctgaa  180
aatccatctg ggaaggataa acatgagaac aaatctcata taatcaaagc tagtgagagt  240
cattcaccag acggtgaaca gaatgctgtc acagaaacaa aacttattga tcagatattt  300
gcgaattcat tanttctcat gtgttctgag gatgcactgc gcttgtatac tgtaaagtct  360
cnatctcagg gaagtcttga gagcattang gaggtaaatc ttccaaggcc gtgttgctgg  420
atgggaatcc ctaaaagaag atggaagggg aatntgcant actcctgttt taccgaacag  480
ggca                                484
  
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<210> 4059
 <211> 455
 <212> DNA

<213> Arabidopsis thaliana
 <223> Clone ID: LIB22-059-Q1-E1-F5
 <400> 4059

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 tcactcgaat tcgggtcatt gaactgattc ccggggctcc gaatcaccag aagatccgaa 180
 atccgttgca tcgcaagcgc ttgcttatcc tgagctgaaa taacaagatg attcacattc 240
 gtcgtcctcg cagccgtagc cgccgcagaa gaagacgatg aagacgacga cggagatgga 300
 agcacaccgt tatggatctg aactggaact ttccctatgg tatcagcttc actagccatc 360
 atttcgaaca gcgtcggact tgatcgtgtc ttgtcgtgca tcgccggagg cggaggagga 420
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<210> 4060
 <211> 471
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-F6
 <400> 4060

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 ttcatTTTTga tccttcttcc ttctcttga gatttctcaa atctcttcaa ctattttgat 180
 ttgccgccat gtatcgacgc gccacttccg gcgtgcgttc tgcctccgca aggctttctt 240
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 cgcttcgcaa tcagacgaac cgatctaaga gtttctctc ggctctccgc tcctttcgag 360
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<210> 4061
 <211> 483
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-F9

<400> 4061

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ttatttggtc atcaagatgg caaatctgtc cggttaacgc tcgatgaaag aaccggttcc 180
ggttttgttt caaatgatta ttacttgcac ggattcttca gtgcttcaat taaattacct 240
tctgattata cagctggagt tgttggtgcc ttttatatgt ctaatggaga tatgtatgag 300
aagaatcatg atgagataga ttttgagttt cttggtaaca ttagagaaaa agaattggaga 360
gttcaagaca aacattttacg gtaatggaag tactcattca ggaagagaag agagatataa 420
tctctgggtt gatcctactg aagattttca tcaatacagt atcctctggt ccgattctca 480
cat 483

<210> 4062
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-G1

<400> 4062

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cgcgccgaa gcaatctacc gaaccgactc agagcttttg agtcttctaa atctctatcg 120
aatttttcta gggtagggc tctgatcga tttcgcgagc tctgcgatta ttttaagtat 180
taggatccga aattagaaat gggtaggagag ggagattcaa gtcagccgca gagtggtgaa 240
ggagaagctg tggctgtgaa catcaggtgc tctaattgga cgaaatttag tgtgaagacg 300
agtctcgatt caacgggtgga gtctttcaaa gagttggtgg ctacagagcag cgatgttcca 360
gctaatacgc agcgcttgat ttacaagggt cgtatcctca aggacgatca aactctcttc 420
agctaagggt tgcaggctga tcacaccatt catatggggt aagaggctct gcancttctt 480
cagcaccacc tctgctccg gccg 504

<210> 4063
 <211> 459
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-059-Q1-E1-G10

 <400> 4063

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 gtgttcctct gtaatttctc agtatatata gataccaaaa caagcagtga aaaatggcta 120
 tggcgagttt atatcggcga tctcttcctt ctctccggc cattgacttt tcttccgccg 180
 aaggcaagct aatcttcaat gaagcgcttc agaaaggaac tatggaagga tttttcaggt 240
 tgatttcgta ttttcagaca caatccgaac ctgcgtattg tggtttggt aatctctcag 300
 tgggtgtgaa tgctctttcc atcgatcctg gacgtaaag gaaaagggcc ttggaggtgg 360
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 ttcatttggg aaaaagttgt ctgtttggct caattgttc 459

<210> 4064
 <211> 460
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-059-Q1-E1-G11

 <400> 4064

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 agtgcttagc atggcaccag gacttgaacg cctcaacatt ctacccttca aggtcgctgc 180
 atatgacaaa actcagggga aaatggcctt ctttgatcct tccaggtctc aagacttctt 240
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 tttcatgtgt ccctctgggtt gggaagggtg tggttgacta ctacgacagt ctcaagtga 360
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<210> 4065
 <211> 451

<212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-G12

 <400> 4065

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 caggcggagg ttnatgcgtt ggtcagctct ggngggagca tacgcgacac atatgctctt 180
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 gtctacaaaa ccctgggtcaa gtacttggtg cgggttccac aggtgttggt ggnntttatt 300
 cgacaagata aacgatnatg atgggccaaa tggmataaca gcaagaacgt tatgnacccc 360
 cctctagaca antctcacia gaaatgggtga tcgcaaattc gggttttcct aacacttctg 420
 nncggaaaaga tatgatacct tcanactgag t 451

<210> 4066
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-G3

 <400> 4066

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 tttgggaaac gggagtgtgg tcttcgtgtg tgtgtccctg tttcattaac caataattat 180
 gcttgggagt ggaaagcaag aaaaattcta aactttatat aaaattccca gaatcaattg 240
 atccaaaaag agtattgtca aaaaagataa tcaagaagaa gaaactctgt ttttttggtc 300
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 agagaagtaa tagatgactt ggaagagacg caaacgaag gagatgattt caaagtcaat 420
 acctccatgg aaggaacaaa tcactttcag aggaattggt gcaagtttaa tcattggtat 480
 a 481

<210> 4067
 <211> 477
 <212> DNA
 <213> Arabidopsis thaliana

 <223> Clone ID: LIB22-059-Q1-E1-G8

 <400> 4067

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 aaagaagaca ctatccttcc tcttcccat acagtccatg tcatgacagc aggagctgct 180
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 gcagcttgat gtcattgaca ctcagaccgg aaaacctgtt cctgcagatg gaaaaaccgc 420
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<210> 4068
 <211> 515
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-H1

 <400> 4068

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 tctcgccgtc gatttcaatt tttccgacga tatgaagctc accgttaaaa ctctcaaggg 180
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 cgtcggttatg cttagcaaga gcanatctgg aggttcaagc tggtcaggct tcgggttcan 420
 acttctcttg tttcacagcc ctgtttccgc taccacatcn tcgactaagc ctgcangctc 480
 catctaaanc ccagttctca cengttccct gcttc 515

0 **1** **2** **3** **4** **5** **6** **7** **8** **9** **A** **B** **C** **D** **E** **F** **G** **H** **I** **J** **K** **L** **M** **N** **O** **P** **Q** **R** **S** **T** **U** **V** **W** **X** **Y** **Z**

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cggaagtgac	tttgacggag	aatgatctcc	gttttatctc	gtttagtacc	ggaaagagag	180
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tttaccaat	gggtgaagtg	aggcgacggg	gacgtacggc	gaagataatt	ccgtatatac	420
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<400> 4070

1974

494

<400> 4071

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<210>      4072
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<212>      DNA
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<223>      unsure at all n locations
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1975

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g 481

<210> 4073
<211> 511
<212> DNA
<213> Arabidopsis thaliana
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<400> 4073

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<210> 4074
<211> 460
<212> DNA
<213> Arabidopsis thaliana
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<400> 4074

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<210> 4075
 <211> 500
 <212> DNA
 <213> Arabidopsis thaliana
 <223> unsure at all n locations
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 <400> 4075

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 cttggagctt tgactctttt gagcagtttg gtgatagtga aaggagaaaag cccttacaag 180
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 gcagaggaag aactcatggc aagatgggtgt tttggggaac aaactgtccg attcaaccaa 420
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<210> 4076
 <211> 505
 <212> DNA
 <213> Arabidopsis thaliana
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 <223> Clone ID: LIB22-059-Q1-E1-E11
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<210> 4077
<211> 461
<212> DNA
<213> Arabidopsis thaliana
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CC44730.1 "Arabidopsis thaliana"

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<210> 4079
<211> 475
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<223> Clone ID: LIB22-059-Q1-E1-E7

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tttttcatcg ccggcgaaac attttttacc aattctccag cttggctaata caactccgat 180
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<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-E8

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gattctaaca aacagcctga caatgaattc cttgctcagg ttccatgggt ttctaggctt 420
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<211> 486
<212> DNA
<213> Arabidopsis thaliana
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aaaagg 486

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<211> 515
<212> DNA
<213> Arabidopsis thaliana
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 aatctgaacg agaacagggc tctatggaaa ctgggggacgt taccaccggg gactgatcac 300
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<210> 4083
 <211> 483
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-D2

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 cttacggcgc cgtctccgtc gacggttgaa caatctatct tgggtggcaag gagcatcgtg 180
 ttaaaaactgc tagtggtggt gtgtctgtca ttgtctatgg agacagagaa aagccagcat 240
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 aggggttatc ttctgtctg aagcagcttc attgctgctc ataacttctg canttaccat 420
 atcagtcac ctggggcatg aanttaggag ctgggtccaa attggcccaa atgantcaat 480
 tcc 483

<210> 4084
 <211> 510
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-059-Q1-E1-B4

664730-163666

<213> Arabidopsis thaliana
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<400> 4086

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ccacgaacac tgctgggtgct agagtcattg tgactgagat tgatcccatc tgtgcccttc 180
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<210> 4087
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<210> 4088
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 <212> DNA
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 <223> unsure at all n locations
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cctctgattt tgtcattgac cagagcatgt attatccgcg ttattactct tcagggttatg  300
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 <223> unsure at all n locations
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ctggccgaga tcaaggactg cattaatcaa ggcggtctca atgcgattcc catcttctac 420
aaacttgcac ctctctccgt gttagaactc aaaggagggtt ttggcgatac tttcagggtt 480
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<210> 4092
<211> 483
<212> DNA
<213> Arabidopsis thaliana
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<212> DNA
<213> Arabidopsis thaliana
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<400> 4094

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gaattactgg ggaacctcct ccaancctga acggtngcaa ncctccgtaa tngcttcccc 420
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<212> DNA
<213> Arabidopsis thaliana
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<210> 4099
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 <213> Arabidopsis thaliana
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<213> Arabidopsis thaliana
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<210> 4103
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 <213> Arabidopsis thaliana
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<210> 4110
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 <213> Arabidopsis thaliana
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 ataaggaaga tattcagcta atgaanaatc taaacacaga tgcattcang actctcaatc 360
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<210> 4111
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 <212> DNA
 <213> Arabidopsis thaliana
 <223> Clone ID: LIB22-056-Q1-E1-B6
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<210> 4112
 <211> 441
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 4112

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gaataacaca aacacattga accctgaaac tactcaaaac attcctttta atcatgcaac 360
aatacaagca caacaaagaa acctctcaag caagccaaac caagcacatt catgggcccg 420
gttgcacctt tcgacaatgg c 441
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<210> 4113
 <211> 426
 <212> DNA
 <213> Arabidopsis thaliana

<223> unsure at all n locations
 <223> Clone ID: LIB22-056-Q1-E1-C3

<400> 4113

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tttacaaagt atgagcaagt ttttcttggt ttctacagca aagcaatgct cacaccattt 180
tcgtggagct taaagtcttc aaaccgaaac taaaagcttt gaaatttctc tgcaagaaac 240
agagagagag atctagggat tggctattaa gagagagaga gtagaagtac tacactattg 300
gttcctgtgc tgttgtgttt tgtgcatctg ttcttggtgt tctcagataa aatattagnt 360
tcagtcnttc aaagacattg antctcacac acttactaac acacactcac acacgcgtta 420
atttct 426
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<210> 4114
 <211> 419
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-056-Q1-E1-C6

 <400> 4114

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 taattctgat ctccgttctc taactgccat catcactggc gcgacgtcgg ggataggagc 180
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 cgttatgcat cttgatctca nctcacttac ctctgttcgt cgattcgtgg acgatttcga 360
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<210> 4115
 <211> 481
 <212> DNA
 <213> Arabidopsis thaliana

 <223> unsure at all n locations
 <223> Clone ID: LIB22-056-Q1-E1-C7

 <400> 4115

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 catcttctaa agatgtatcc aatagcccaa aatcattatc atcaatgttg gactctcaag 180
 atctaggatt ggatattana actgagtttg agcaacaaga gaaccagcaa tttccattga 240
 ctggaaaagc caatgggtctg tcatcccaa gtgtcccaag tgtacgtgta actcttaag 300
 ctgaccaata tcgtgagcat aagggtcaac cctcagttga ggaccaagcc atatcaacaa 360
 aataaaatga tgaagttttc gaaaatgcct gggacttctg aggcaangcc ctttcaagag 420
 ctgtacggtc acaggattcc atttagtaat tcagctggaa aatgtgtaaa tcagttggca 480
 c 481

taaga

485

<210> 4118
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D10

<400> 4118

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ggaacttcca cacatataca tccacaagaa cccatatcga agattcatcc tacatatatt 120
tacatggatc agtactcacc ctctttgggc gatacttcat tagatctcac tattggcggt 180
actcgtatgc gagttgaaga agatccaccg acaagtgctt tgggtggaaga attaaaccga 240
gttagtgctg agaacaagaa gctctcggag atgctaactt tgatgtgtga caactacaac 300
gtcttgagga aagcaactta tggaatatgt taacaagagc aacataaccg agaggggatt 360
aaaatcagcc tccaagaaa cgnaaatccc cgggcgagag aggangcatt c 411

<210> 4119
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D3

<400> 4119

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aaacagctcg taaatccacc ggaggaaagg caccaaggaa gcaactcgcg accaaagctg 180
cgaggaaatc agctccagcc accggaggag tgaagaagcc acacagattc cgtccaggaa 240
cgggtggcggt gagagaaatc aggaagtatc agaagagtac tgagcttttg atccgtaagc 300
ttccggtcca gagattgggt cgtgagattg ctcaagattt caagacggat ctgagggtcc 360
agagcagtgc cgtcgagct cttcaggaag cagctgangc ttatcttggt gggctctttg 420
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<210> 4120
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D5

<400> 4120

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa cgtaatctcg 180
aagtcggttg tttcaatcct gccatggccg aagggaagtt cgatctgcct gacgatctca 240
tcttttccaa atcttctgat cagctcaaag aattgggctc agataacagc attcccttgt 300
ctccgnagtg gctttacacg aaatcaagcg agtacaagga tggatgttcg atcnccctac 360
tcctgttccc atgggaaatc caagtgancn aaatccgaag gatgcatggg n 411

<210> 4121
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-D9

<400> 4121

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cttcgtctct ttcgaaagat ctaaccacaa caactcctta agatggataa gtatcaacga 180
agtgggtgaag ccgaaagcgg atacgccgat tgatgcgaat gagattcgta tcactagtca 240
aggcagggca cgaaactaca tcacctatgc gatgactctt cttcaggata aagggtcaac 300
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tgattaaaga gaaggattcc tgatcttcat cagaacacat ctattgggat tcacagacat 420
cacagacaca tgggaaccaa cacagggaan ggcntctaac tttggagact acaagggcac 480